

aws marketplace

ClickHouse

Reviews, tips, and advice from real users



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Product Recap

 ClickHouse

ClickHouse Recap

ClickHouse is renowned for its speed, scalability, and real-time query performance. Its compatibility with SQL standards enhances flexibility while enabling integration with popular tools.

ClickHouse leverages a column-based architecture for efficient data compression and real-time analytics. It seamlessly integrates with tools like Kafka and Tableau and is effective in handling large datasets due to its cost-efficient aggregation capabilities. With robust data deduplication and strong community backing, users can access comprehensive documentation and up-to-date functionality. However, improvements in third-party integration, cloud deployment, and handling of SQL syntax differences are noted, impacting ease-of-use and migration from other databases.

What features make ClickHouse outstanding?

- **Speed and Scalability:** Enables rapid deployment and scalability, particularly on Kubernetes.
- **SQL Compatibility:** Aligns with SQL standards for flexible database management.
- **Column-based Structure:** Offers efficient data compression and quick query performance.
- **Integration Support:** Works with Kafka, Tableau, and other popular platforms.
- **Data Deduplication:** Manages complex data duplication efficiently.

What benefits should users consider?

- **Cost-Efficiency:** Reduces expenses while managing large datasets effectively.
- **Real-Time Analytics:** Provides fast data processing for real-time insights.
- **Flexibility:** Offers multiple integration points and compatibility options.
- **Robust Documentation:** Backed by an active development community, ensuring comprehensive support.

ClickHouse is deployed in sectors like telecommunications for passive monitoring and is beneficial for data analytics, logging Clickstream data, and as an ETL engine. Organizations harness it for machine learning applications when combined with GPT. With the ability to be installed independently, it's an attractive option for avoiding cloud service costs.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- ✓ “ClickHouse provides great query speeds because it is an OLAP database, so naturally, it provides higher speeds.”



Verified user

Senior Data Engineer at a transportation company with 501-1,000 employees

- ✓ “ClickHouse Cloud saves a lot of time for our DevOps engineers since there isn't much deployment involved and everything is served directly, leading to increased efficiency and productivity.”



Raviteja Narayandasbangaru

AIML engineer at a tech services company with 11-50 employees

- ✓ “ClickHouse provides responses within a few seconds, typically two to three seconds, which is impressive.”



AmitVerma4

Software Developer at 8 Gallery India

- ✔ “ClickHouse is very easy to use; one of the good features is that it has joins, which were not present in Druid, and Druid was quite expensive, especially with our applications at Sam's Club utilizing ClickHouse very quickly.”



Aswini Atibudhi

Distinguished AI Leader at Walmart Global Tech at Walmart

- ✔ “With ClickHouse, since data is stored in a columnar way, we get aggregation functions that are much faster than transactional databases, such as SQL Server, and the cost efficiency is also much reduced compared to Cosmos DB since we use it on-premises, the cost is nearly cut, which is very useful for us.”



Verified user

Software Engineer at a tech services company with 11-50 employees

- ✔ “Regarding performance, we tried multiple solutions when Kibana was failing, including PostgreSQL, MySQL, and even MongoDB for log ingestion of huge volumes, but ClickHouse outperformed all databases we tested, leading us to choose it for further use cases.”



Aditya Aditya

Associate software architect at a tech services company with 11-50 employees

✔ “ClickHouse has reduced our storage cost and improved our 99th percentile latency by 40%.”



Hitaish Kumar

Senior Software Engineer at Karvy Fintech

What users had to say about valuable features:

“The query engine is super fast. We deploy ClickHouse on our Kubernetes cluster, not as a cloud subscription, so it's easy to scale with the deployment..”

Verified user

Software Development Engineer II at a financial services firm with 10,001+ employees

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“It's easier to work with big data and calculations using the product. For example, we can easily calculate metrics around terabytes of data using ClickHouse. The dictionaries help us to make our analysts' jobs faster and easier and give value to the business faster..”

Anton P

Senior Data Engineer at Brightika, Inc.

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“ClickHouse is a user-friendly solution that tries to be compatible with SQL standards. It also tries to provide command-line tools, very nice formatting, libraries. And of course blazing speed it is main selling point of this technology.”

Andrei Kochemirovskii

Lead Data Engineer at Omni Verse

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“The tool's most valuable feature is a database. It supports portal APIs and offers good flexibility. While it may not be the best on the market, it is the best open-source solution we have tried. It has a development community and good documentation, though not all is published.

The tool's integration with other tools is not complex. We use it alongside Kafka and Tableau. .”

Timur D.

ClickHouse DBA at a computer software company with 51-200 employees

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“ClickHouse is much faster than traditional databases like MySQL and MongoDB. Its column-row searching strategy makes it very efficient. With ClickHouse, we can manage multiple databases, automatically insert data from other databases and delete data as needed. It supports real-time query performance, allowing simultaneous data insertion and retrieval. ClickHouse has improved significantly over the past two years, adding more functions and queries, as well as top functionality.

.”

Parveen Yadav

Software Engineer at Activant Solutions Pvt Ltd, Jaipur

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“The main feature of ClickHouse is the optimizer, if we had too many records to deduplicate, the optimizer took this task by itself. The second valuable feature of the solution is its performance. It's not easy when we talk about five or six gigabytes of one table of data.

Then, if you have to generate too many KPIs, charts, lines, and reports, it's not easy to deal with all of these with just one engine and tool. ClickHouse was really nice in this respect, and we had no problem with its performance..”

Ayham Al-Adm

Full-stack Web Developer at a tech services company with 51-200 employees

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Other Solutions Considered

I previously used Postgres, which started slowing down with massive amounts of data. I evaluated over twelve databases, starting with TiDB, but found ClickHouse to be the best fit after considering options like DuckDB. I initially preferred Postgres for its comprehensive features, but it couldn't handle the data scale.

ArpitShah

Software Analyst at CLSA

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“We chose ClickHouse because we needed to move away from cloud-based solutions due to risks in Russia. We considered other options, such as Postgres, NoSQL databases, Hadoop, and Hive, before deciding on ClickHouse..”

Dmitriy Yugin

Senior Data/Web Analyst at Raiffeisen Bank

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“The company decided to use ClickHouse because mobile networks produce enormous amounts of data—millions of timestamped vectors, each representing a measurement, which total billions of rows per month. Initially, they used MySQL, but as the data volume grew, MySQL couldn't handle the load. Therefore, they switched to ClickHouse..”

Spyros Almpanis

Backend Software Engineer at a tech vendor with 51-200 employees

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“Earlier, we were using Elasticsearch and Kibana, but we needed to switch to ClickHouse, realizing it was awesome to work with. In scenarios where Kibana and Elasticsearch were not allowing us to parallelly write logs to the database, I carried out a performance test under heavy load, verifying that ClickHouse supports parallel execution of logs, and it performed really well, which is the core feature we love about ClickHouse..”

Aditya Aditya

Associate software architect at a tech services company with 11-50 employees

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“Before choosing ClickHouse, we did evaluate other options such as BigQuery or Azure warehousing concepts, which are more oriented towards spending money, but we needed a cost-reduced, on-premises solution. That's why we were ready to use ClickHouse for our analytics..”

Verified user

Software Engineer at a tech services company with 11-50 employees

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“RocksetDB and Google Spanner, along with other open-source solutions, were reviewed. After reading blogs, documentation, and reviews, and after testing some solutions including Spanner, Spanner was found to provide similar performance, but cost is the main concern. ClickHouse was selected because it is open-source and can be run on-premises, which is the primary requirement due to data security considerations..”

AmitVerma4

Software Developer at 8 Gallery India

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ROI

Real user quotes about their ROI:

“I have seen a return on investment, as I can share that on the engineering side we had improvements in database performance, but for the metrics asked, time saved, fewer employees needed, I do not have them..”

Verified user

Software Development Engineer at a tech vendor with 201-500 employees

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“In terms of specific outcomes, I have noticed faster report generation, but I cannot really say the cost has reduced much. I have already mentioned what returns I got in terms of driving our product..”

Verified user

Senior Software Engineer at a wholesaler/distributor with 1,001-5,000 employees

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“In terms of return on investment, my focus was more on developer productivity than on money saved per se, but compared to other databases we used, it was fairly in a similar range. The number of employees needed did not change initially, but we could reduce the amount of employees needed when we migrated to ClickHouse Cloud..”

Verified user

Founder at a tech services company with 11-50 employees

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“I've seen a return on investment, with money saved metrics around 50% to 75% for us by using ClickHouse. The return on investment is around 25% to 30%. For time-saving metrics, it's around 30% to 40% of time saved compared to transactional databases. The setup is also a time-saver for ClickHouse..”

Verified user

Software Engineer at a tech services company with 11-50 employees

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“We have saved a lot with ClickHouse regarding parallel execution, efficiently storing logs that we ingest, which used to be around 10 to 20 million rows per day, all executed in parallel. Previously, we had to increase the servers and run up the disks for Kibana, but with ClickHouse, we didn't need to spend much on resources, cutting costs by around 25 to 30%..”

Aditya Aditya

Associate software architect at a tech services company with 11-50 employees

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“ClickHouse Cloud saves a lot of time for our DevOps engineers since there isn't much deployment involved and everything is served directly, leading to increased efficiency and productivity. Our storage efficiency significantly reduces costs. While I cannot provide exact numbers, I can affirm that the time I save as a data scientist and ML engineer is considerable. I don't wait two or three hours for data to be read from CSV files or to utilize Spark anymore. I receive data instantly in minutes even for large aggregations. Therefore, analysts and engineers like myself do not spend time waiting on heavy SQL queries. The developers instantly access the data they need, improving overall productivity. I estimate we save four to five hours per person per week due to this efficiency, translating to around 20 to 25 hours saved monthly for each individual. Although I cannot quantify the monetary savings precisely, our 10x data compression has made a substantial difference in operational efficiency. The onboarding experience for junior engineers is also pleasant, given the straightforward design of ClickHouse..”

Raviteja Narayandasbanganu

AIML engineer at a tech services company with 11-50 employees

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Use Case

“During my experience Clickhouse was used primary for companies analytics. At the same time I had a chance to apply it for various other use-case, such as log and storage metrics, Clickhouse as an ETL engine, monitorin, alerting and many more.”

Andrei Kochemirovskii

Lead Data Engineer at Omni Verse

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“We use the solution not just as an analytics database but also as a data warehouse. A lot of our internal services communicate with the tool. Our analytics and ML teams also use the solution. It's the hub of our company..”

Anton P

Senior Data Engineer at Brightika, Inc.

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“Our use cases are for data analytics, both real-time and batch, and also for logging Clickstream data.

We use it in our organization. We have it in our production environment..”

Verified user

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Software Development Engineer II at a financial services firm with 10,001+ employees

“We use it to store live data and for tracking and monitoring every action on a PC, like which websites are opened, through Kubernetes and Google Chrome. Data is sent every second from ActiveMQ, and ClickHouse can insert millions of data points per millisecond..”

Parveen Yadav

[Read full review](#) 

Software Engineer at Activant Solutions Pvt Ltd, Jaipur

“I used ClickHouse to collect data, put it in the database, and then analyze it to find insights. The main advantage is that I can install it on my computer instead of using cloud-based solutions, so I don't have to pay for every query like with Google or Amazon cloud services..”

Dmitriy Yugin

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Senior Data/Web Analyst at Raiffeisen Bank

“Our company had about nine platforms, each with its own database and data. We had to gather all these data in one database and just one table. We used Apache Superset to integrate this database with the business intelligence tool. We had too many choices or options initially for the database engine.

We initially tested a database, and its performance was good. When we tried ClickHouse, we switched to it immediately because the performance was really amazing. When we had a huge amount of data, about five or six gigabytes in just one table, and we used ClickHouse to deduplicate some duplicated entries or records..”

Ayham Al-Adm

Full-stack Web Developer at a tech services company with 51-200 employees

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

“Installing the tool was easy. I used a Windows laptop with WSL and followed the documentation instructions. I didn't have any issues with the installation..”

Dmitriy Yugin

Senior Data/Web Analyst at Raiffeisen Bank

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“Regarding the initial installation, setup, and deployment, I can say it's easy for someone with my engineering skills. I prefer managing the installation myself rather than relying on out-of-the-box solutions. .”

Timur D.

ClickHouse DBA at a computer software company with 51-200 employees

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“The ease of setting up and configuring ClickHouse for my needs is a nine.

The setup and configuration process is a nine for me because I think the onboarding could be better. .”

Verified user

[Read full review](#) 

Founder at a tech services company with 11-50 employees

“We didn't have any issues regarding pricing, setup cost, or licensing.

The integration and documentation for ClickHouse are flawless; we didn't need to add anything because every feature is explained so well that we did not have concerns about how everything is going to work..”

Aditya Aditya

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Associate software architect at a tech services company with 11-50 employees

“The initial setup is easy for me because I have a lot of experience. Generally, when I mentor someone to deploy the whole cluster, it is difficult for them. It will not be hard to deploy one server or node because ClickHouse’s team has shown a great demo of deploying it as a service on Linux. It gets harder if we want to tune some small sequences to get more performance. Real-time models require experience. We can open some community chats and find help. The deployment can be done in a couple of minutes. It’s very fast..”

Anton P

Senior Data Engineer at Brightika, Inc.

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“The initial setup is pretty difficult since we deployed it in-house. We didn't use the cloud subscription, so we have to handle the deployment very carefully.

The challenge was deploying it and having the replication concept working. Another challenging feature is persistent volumes. You have to make sure the data is available on all clusters; otherwise, if one cluster goes down, you'll lose all your data. It's better to have it replicated.

We first used the cloud subscription, but we saw a possibility to reduce costs, so we tried deploying the open-source ClickHouse on-premises. That saved us money, but we didn't get all the features that come with the subscription..”

Verified user

Software Development Engineer II at a financial services firm with 10,001+ employees

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Customer Service and Support

“I have some experience talking with the tech support team. It was an open-source project at one point, so I used community resources for help. The best way to communicate with them was through their program channel, which had support available in both English and Russian..”

Timur D.

ClickHouse DBA at a computer software company with 51-200 employees

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“I have never interacted with the solution's technical support because I usually use the open-source version of ClickHouse. You can post your issue on GitHub at any time, and you will usually get a response..”

Andrei Kochemirovskii

Lead Data Engineer at Omni Verse

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“The product provides a lot of community support. It is useful. We can also contact a private company that provides support for ClickHouse. The solution has a community chat in Telegram that works well. We find solutions easily when the problem is already mentioned by someone. In rare cases, the issues stay unresolved because of NDA..”

Anton P

Senior Data Engineer at Brightika, Inc.

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“The cloud services support is excellent. Their support team is very timely and helpful, and even if you encounter any bugs, they assist you quickly. Compared to other services I've used, ClickHouse's support is very helpful. Even if you don't know much about databases or ClickHouse, their support will help resolve any issues..”

Eden Chen

Senior Software Engineer at a energy/utilities company with 1,001-5,000 employees

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“You only get technical support when you take the cloud subscription. If you have it in-house, you won't get any support. If you have a cloud subscription, then the support is pretty good. You can raise a ticket from the UI, and they will respond within 24 hours.

So, the support team is pretty good but there is a little room for improvement. .”

Verified user

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Software Development Engineer II at a financial services firm with 10,001+ employees

“I have talked to the ClickHouse support team before. They have a support group on Telegram messenger where you can ask technical questions. I often asked about working with tables and views and making sophisticated calculations. But now, I don't have any issues, so I don't need to ask for support.

I was satisfied with the support. Many people in the support group try to really understand your problem and help, not just dismiss it. If something isn't possible due to database limitations, they try to help you look at the situation differently..”

Dmitriy Yugin

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Senior Data/Web Analyst at Raiffeisen Bank

Other Advice

“We do not use the real-time features much. Usually, we work with big data. We do not need to work with big data in real-time. We use CatBoost with ClickHouse. I always recommend the tool to others based on their requirements. If you have trouble with your queries and think that ClickHouse is slow, please review your queries. Overall, I rate the solution a ten out of ten..”

Anton P

Senior Data Engineer at Brightika, Inc.

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“Although I haven't used AI with ClickHouse extensively, it's a great option because ClickHouse can handle large data volumes and perform queries very quickly.

I would recommend ClickHouse to others, especially for real-time applications like chat, map locations, and AI tools. Compared to MySQL, ClickHouse handles large datasets and queries very quickly, making it a perfect choice.

Overall, I would rate ClickHouse a ten out of ten.

.”

Parveen Yadav

Software Engineer at Activant Solutions Pvt Ltd, Jaipur

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“ClickHouse is good for analytics. Using ClickHouse is beneficial if you understand its specific purpose and advantages. Many engineers and developers mistakenly think it is an alternative to AWS databases like Postgres or MySQL, but it's not. ClickHouse has a different architecture and purpose, primarily excelling at analytical queries rather than traditional CRUD operations.

If you join our team, it should be easy for you to use ClickHouse, especially if you are a developer. However, you need to read the documentation and understand the problems you are trying to solve. As an infrastructure engineer, it shouldn't be hard either.

I rate the overall solution an eight out of ten. .”

Timur D.

ClickHouse DBA at a computer software company with 51-200 employees

[Read full review](#) 

“ClickHouse provides the best real-time query performance in the market if it is used properly. Generally, ClickHouse is not so easy to use because it's designed in such a way that you should be aware of the infrastructure. The solution is complicated, but it is easy for someone with experience and knowledge. I would recommend the solution to other users.

ClickHouse is a magnificent solution, but users should first read a few articles about it to understand how to use it properly and how not to use it. Users should take a learning course to be aware of its architecture and to use it properly.

Overall, I rate the solution ten out of ten..”

Andrei Kochemirovskii

Lead Data Engineer at Omni Verse

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“I would tell other users to do a POC because it depends upon the business use case and the data. They can explore first. There's another open-source option called Apache Druid, which is a little better than ClickHouse. If that doesn't fit the use case, then they could go for ClickHouse.

Overall, I would rate the solution a seven out of ten.

If you have a real-time basis, you should take a look at ClickHouse because it works on a vector database, and the querying is super fast compared to traditional databases. So, if your use case is real-time or logging or real-time dashboarding, then ClickHouse is a tool to consider. Otherwise, if it's batch processing and you can expect some latency, then you should go for other databases..”

Verified user

Software Development Engineer II at a financial services firm with 10,001+ employees

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“If you're considering using ClickHouse for the first time, my advice would depend on how much data you need to handle. For most scenarios where big data isn't involved, I don't think it's a good idea to use ClickHouse. SQL Server, MySQL, or PostgreSQL are well-documented and supported. The software you need to access these databases will be readily available. So, I don't see any reason to use ClickHouse for small to medium-scale scenarios.

I don't think you'll find it any more difficult than other databases, apart from the SQL syntax, which is a bit different. The most challenging part with ClickHouse is dealing with the large amounts of data it handles without overloading your server. I don't think the database itself is difficult to use. However, I was primarily accessing data from it and don't have much experience with setting it up or feeding it data.

I rate the overall solution a nine out of ten. .”

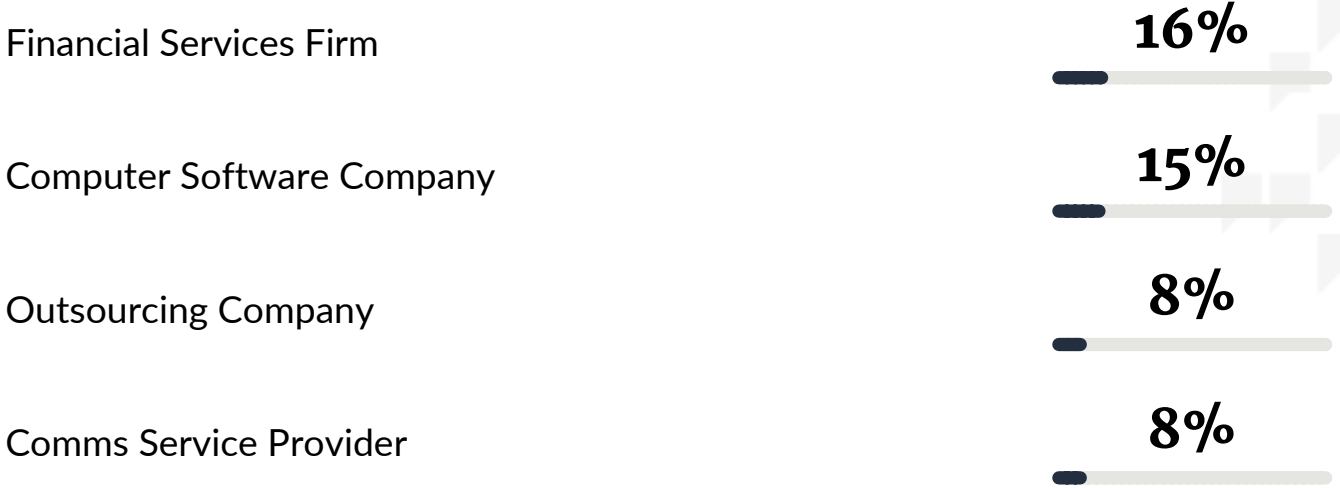
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Backend Software Engineer at a tech vendor with 51-200 employees

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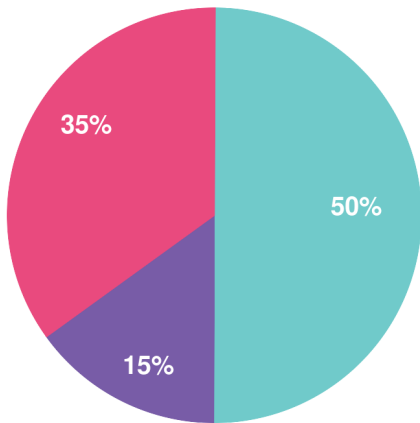
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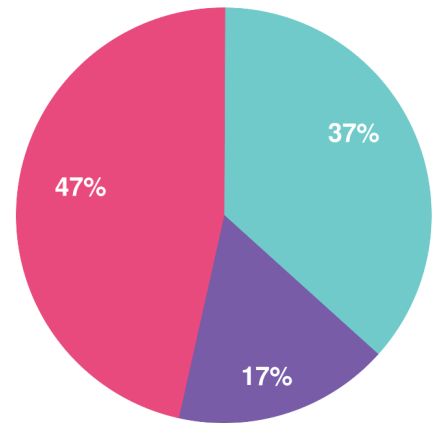


Company Size

by reviewers



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Large Enterprise Midsize Enterprise Small Business

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