Taking Postgres into the 21st Century (Keynote Talk)

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Abstract

Postgres continues to punch way above its weight in 2023. Despite being one of the oldest open-source databases in the world, recent surveys place it among one of the most popular databases for modern developers.

As we showcase the advancements of Postgres as an open-source software, we also show that with the separation of storage and compute, we can deliver Serverless Postgres in the cloud, and scale it up and down with the load without the need for manual intervention by the user all the way from 0 to infinity and back to 0.

With Postgres being a ubiquitous platform we will explore cloud architectures for Postgres for multi-cloud and edge deployments. These changes show that a modern platform can maintain its open-source roots and provide the utility that is so desired in today's cloud computing.

Speaker Biography: Nikita co-founded SingleStore, a unicorn data and analytics company valued over $1.3 billion. He served as a founding CTO and then CEO, successfully scaling the company to over 40 million in ARR and near profitability. For the first nine months, Nikita lived in the office coding next to the servers. Prior to founding SingleStore, Nikita worked as a senior engineer at Facebook, and before that at Microsoft on the SQL Server product.

Nikita is incubating Neon – a new database company building serverless Postgres – that raised $104 million. Nikita has a Ph.D. in computer science from St. Petersburg. During college years Nikita received a bronze medal in ACM ICPC - an international student programming competition.