

# KOUSHIK KRISHNAN

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*Making software as reliable as the sunrise.*

## Experience

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**Microsoft** (Senior Software Engineer) *Remote* February 2023 - present

- Building reliability improvements into the storage and replication layers of Cosmos DB.
- Technical lead for a team of engineers, ramping them up on distributed systems and database concepts as well as preparing them for incident response.

**Yugabyte** (Senior Site Reliability Engineer) *Seattle, Washington* May 2022 - February 2023

- Managed reliable operation of Kubernetes and Yugabyte database clusters across AWS and GCP for the Yugabyte Managed product.

**Microsoft** (Software Engineer 2, Azure Cosmos DB) *Redmond, Washington* August 2018 - April 2022

- Worked as a technical lead for a petabyte-scale, globally distributed database. Reduced number of production incidents by 80%.
- Founded a team that built a Python microservice that would perform real-time root cause analysis/mitigation of incidents and eliminate the need for an on-call engineer. Open sourced this work on Github as Jupyterst [🔗](#)

**Microsoft** (Software Engineering Intern, Azure Cosmos DB) *Seattle, Washington* May 2017 - August 2017

**Fitbit** (Software Engineering Intern) *Boston, Massachusetts* May 2016 - August 2016

**Kayak.com** (Software Engineering Intern) *Concord, Massachusetts* May 2015 - August 2015

## Presentations

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**PyCon 2024** [🔗](#) (Rest East with Jupyterst: Deploy notebooks as web services) *Pittsburgh, PA* May 2024

**PyTexas** [🔗](#) (Rest East with Jupyterst) *Austin, TX* April 2024

**PyCascades** [🔗](#) (Rest East with Jupyterst: Deploy notebooks as web services) *Seattle, WA* April 2024

**PyOhio 2023** [🔗](#) (Serverless Jupyter Notebook Functions (YouTube) [🔗](#)) *Virtual* December 2023

**PyData Seattle 2023** [🔗](#) (Notebooks as Serverless Functions (YouTube) [🔗](#)) *Seattle, WA* April 2023

## Volunteering

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**ASHA Chennai** [🔗](#) (Spoken English Teacher) *Remote* December 2020 - March 2022

- Created a curriculum with story-telling, skits, and friendly debates to provide disadvantaged children isolated in quarantine a fun way to learn spoken English.

## Education

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**Georgia Institute of Technology** *Atlanta, Georgia* August 2014 - May 2018  
*Bachelors of Science in Computer Science and Mathematics*

## Skills

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- Languages: Python, Golang, C/C++, JavaScript, C#, Powershell, Zig
- Tools: Kubernetes, PostgreSQL, Linux, Windows, Azure Service Fabric, Distributed Databases, Storage Engines, Docker