💌 rgudise@uwaterloo.ca | 🆀 www.rahulg.me | 🖓 Github | 🛅 LinkedIn

Rahul Gudise

Skills_

Languages: Python, Java, C++, Go, JavaScript, Rust, C, Haskell

Tools: AWS, Linux, SQL, Docker, GCP, Git, Protobuf, gRPC, REST, NoSQL, Jenkins

Experience _

Tesla, Inc

FULL STACK SOFTWARE ENGINEER

- Implementing and deploying fault-tolerant low latency micro-services with C++, Go, Kubernetes, and Docker to allow for secure remote vehicle access, and diagnostic data transfer from vehicles worldwide
- Developing internal tools with **Python** and **SQL** to enable rapid real-time data querying from Tesla devices worldwide, as well as efficient data processing of large trillion point datasets

Dejero Labs

LINUX SOFTWARE ENGINEER

- Developed low-latency IPC servers using C++, Protobuf and gRPC, increasing data throughput in resource-restrictive Linux environments by 25%, subsequently decreasing API latency by 31%
- Implemented and subsequently leveraged highly efficient web scrapers built with **Python** and **Django**, to generate vulnerability compliance reports for custom **Linux** distributions, increasing customer satisfaction by 45%
- Lead the effort to containerize and optimize several high-performance networking services using Docker, resulting in a 29% reduction in deployment time, subsequently decreasing infrastructure costs by 11%

Tréxō Robotics

BACK END SOFTWARE DEVELOPER

- Spearheaded the development of AWS microservices built using Python, allowing for efficient troubleshooting of over 500+ user devices, decreasing operational costs by 17%
- Leveraged concurrency in Go to optimize a highly scalable RESTful backend reducing API latency by 23%, and increasing customer satisfaction by 11%
- Collaborated in a dynamic Agile environment and actively participated in daily stand-ups and Scrum ceremonies

HSBC Bank

CLOUD DEVELOPER

- Optimized a cloud-based data processing solution on Google Cloud using Java, decreasing data ingestion and processing time by 37%, and subsequently increasing customer satisfaction by 8%
- Designed and implemented comprehensive unit tests, enabling rapid detection of code vulnerabilities early on in the development cycle, saving on average 20 hours of cumulative developer time per sprint

Projects

Kadem - Distributed Hash Table 🖓

- Designed and implemented a distributed hash table based on the Kademlia protocol, allowing for decentralized, low latency peer-to-peer (P2P) communication and data storage, built using Python, Protobuf and gRPC
- Integrated fault-tolerant mechanisms into the Kademlia protocol, allowing for seamless handling of node failures, subsequently ensuring data availability as well as consistency in dynamic P2P networks

Education_

University of Waterloo

BACHELOR OF COMPUTER SCIENCE, CURRENT 3.9 GPA

Relevant Course Work: Data Structures (C++), Algorithms (C++), Databases (SQL), Computer Networks (Python), Object Oriented Programming (C++), Operating Systems (C), Machine Learning (Python)

Sept. 2021 - Dec. 2021

Waterloo, Ontario

Sept. 2020 - Dec.2024

Ontario, Canada

Ontario, Canada Jan. 2023 - Apr. 2023

May. 2022 - Aug. 2022

Ontario, Canada

California, USA

Jan. 2024 - Apr. 2024