Rishabh Sambare

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TECHNICAL SKILLS

Languages: Python, C, C++, Java, Go, SQL, JavaScript, TypeScript

Technologies: AWS, Google Cloud, Docker, Linux, Kafka, Snowflake, Git, React

EDUCATION

University of Waterloo   Sep 2020 - Expected Apr 2024
BCS Computer Science, Minor in Pure Mathematics | 3.7 cGPA

EXPERIENCE

Enlighted (A Siemens Company) 🔗 | Software Engineer Intern   Jan 2023 – Present
Python, SQL, Java, Go, Snowflake, AWS   Santa Clara, CA (Remote)

- Solved a key product bottleneck by rewriting a web service for calculating and serving utilization statistics with **AWS Lambda** and Snowflake, resulting in less memory overhead and 57% faster response times for enterprise consumers
- Optimized data aggregate calculations over 2.7 billion rows of data by rewriting legacy Java utilities as **Spark**-style UDFs, resulting in 36% less processing time
- Developed a multithreaded Python server to parse bitstream data from **Kafka**, ingesting 2.76M packets weekly from 400 unique IoT devices and enabling company-wide analytics on billions of rows of raw sensor data
- Designed and developed an internal performance benchmarking tool in **Go** to concurrently query API endpoints, logging response-time statistics and other metadata

TribalScale 🔗 | Software Engineer Intern   May 2022 – Aug 2022
Python, AWS, GraphQL, TypeScript, React   Toronto, ON (Remote)

- Migrated a JavaScript server to **AWS Lambda** functions in **Python**, increasing average server uptime by 82% and decreasing costs by 24% while maintaining response speeds
- Developed a GraphQL server for a major client's NFT marketplace, writing AppSync resolvers to **DynamoDB** for fast and highly scalable endpoints
- Implemented multipart file uploads in **TypeScript** and **React** to optimize an **S3** image storage service, reducing delays by up to 200% for 10,000+ users

University Health Network 🔗 | Software Engineer Intern   Sep 2021 – Dec 2021
Python, Docker, gRPC, scikit-learn   Toronto, ON (Remote)

- Prototyped an open-source ⧉, federated ML service using **Docker** and secure **gRPC**, enabling bioinformaticians across Canada to train machine learning models on 3x more data
- Refactored internal data ingestion tools using **Bash** and **Python**, reducing average job processing time by 52%
- Trained federated logistic regressions with **scikit-learn** over 1 million+ synthetic patients for general-purpose inference, achieving an average AUC-score of 0.86 across experiments

OUTREACH

UW Blueprint 🔗 | Project Developer   Apr 2023 - Present
Python, Flask, Firebase   Waterloo, ON

- Developing UW Blueprint's internal tools, facilitating 80+ developers to provide MVPs to newly partnered NPOs

PROJECTS

FSS Bot 🔗 | A multi-purpose Discord bot written in Go

- Built a Discord bot in **Go** for 500+ users that periodically serves recent Tweets from subscribed accounts, leveraging goroutines and channels to reduce average bot response time by 350ms

Climbing Regressor 🔗 | A Random Forest Model That Predicts Climbing Grade

- Trained a random forest regressor on ~1.5M data points using scikit-learn to predict a climber's potential based on gender, height, weight, and time climbing