

# Rishabh Sambare

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## TECHNICAL SKILLS

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

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

## EDUCATION

**University of Waterloo**

Sep 2020 - Expected Apr 2024

BCS Computer Science, Minor in Pure Mathematics | 3.7 cGPA

- **Relevant Courses:** Object Oriented Programming (C++), Data Structures (C++), Algorithms (C++), Operating Systems (C), Application Development (Kotlin)

## EXPERIENCE

**Enlighted (A Siemens Company)** | Software Engineer Intern

Jan 2023 – Present

Java, Python, SQL, Snowflake, Airflow, AWS, Maven

Santa Clara, CA (Remote)

- Spearheaded the development of a data pipeline with **AWS** and Snowflake to address scalability issues, writing **Java** data pipelines as cloud microservices and **Spark**-style stored procedures
- Created a **FastAPI** web service that provided data visualizations for energy utilization metrics, managing 27% more concurrent requests and increasing user engagement by 2x.
- Leveraged **Snowflake** Tasks and Airflow to decrease the number of **SQL** queries required to generate utilization reports by 30x, resolving a key pain point for enterprise consumers
- Developed a multithreaded **Python** server to parse bitstream data from **Kafka**, ingesting 2.76M packets weekly from 400 unique IoT devices into AWS S3 and decreasing monthly operational costs by 53%

**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

**CanDIG @ UHN** | 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 to train ML 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

## RELEVANT PROJECTS

**TinyDB** | A Performant C++ KV Store for Prototyping 

- Built a lightweight C++ key value store relying on the POSIX API and a custom event loop for socket networking and request parsing, processing 500 requests per second.