Jamie Lau

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TECHNICAL SKILLS

Languages: Go, JavaScript, TypeScript, C++, Python, Java, SQL
Technologies: gRPC, React, Redux, ROS, Node.js, Express, Flask, MongoDB, AWS
Tools: Jenkins, Kubernetes, Docker, Vagrant, TravisCI, CircleCI, Git

EXPERIENCE

Embark Trucks — San Francisco, CA
Software Engineer — *Aug 2022 – Mar 2023*
- Built a gRPC service in Go to notify truck support staff if the truck was able to start correctly, which helped to resolve issues more quickly to get trucks on the road.
- Created a ROS node in Python to monitor the internet connectivity of a truck and to disengage if disconnected, which helped to ensure that the truck could be monitored safely from a remote environment.
- Migrated Kubernetes services to deploy with ArgoCD to facilitate better rollbacks for our services.

Embark Trucks — San Francisco, CA
Software Engineering Intern — *Sep 2021 – Dec 2021*
- Built a backend Pub/Sub service to serve truck data to internal apps using Go, ROS, and C++, resulting in a 2-4x reduction in latency compared to the original Python service.
- Developed a WebSocket benchmarking suite using ROS, Python, NodeJS, and C++.

Boosted.ai — Toronto, Canada
Software Developer Intern — *Jan 2021 – Apr 2021*
- Developed new visualizations for stock market factors using React, Spring Boot, and Protobuf, which generated 50% more interest from new clients over existing features.
- Created various data visualizations using Chart.js to display feature data for 35+ features to customers.

Georgian — Toronto, Canada
Full Stack Engineering Intern — *May 2020 – Aug 2020*
- Developed a web app to visualize explainability data of 3500+ features using React/Redux and TypeScript.
- Built a serverless API to serve hundreds of megabytes of data from S3 using Python, Pandas, and AWS Lambda.
- Integrated company tech stack data into a company recommendation model, which resulted in a 5% increase in prediction accuracy across 3 training sets.

CI Global Asset Management — Toronto, Canada
Programmer Analyst Intern — *Sep 2019 – Dec 2019*
- Developed a service to generate financial reports for fund managers across Canada, using Java and XSLT (XML).
- Improved repository code quality by optimizing and refactoring 15000+ lines of code.

AGF Management Ltd. — Toronto, Canada
Web Developer Intern — *Jan 2019 – Apr 2019*
- Built a web service to securely communicate with a mutual fund application using Spring and Java.

Exact Imaging — Toronto, Canada
Software Developer Intern — *May 2018 – Aug 2018*
- Developed an end-to-end testing framework using Python and AutoIT, which was able to perform 20 hours of regression testing each week.

PROJECTS

KeebComparison | *TypeScript, React, Express, PostgreSQL, Docker* — May 2021 - June 2021
- Developed an application to rank various keyboard switches using the Elo system using React, TypeScript, Express, PostgreSQL, and Docker.
- Implemented authentication and authorization using Firebase Authentication to secure protected API endpoints.

EDUCATION

University of Waterloo — Waterloo, Canada
Bachelor of Mathematics — *Sep 2017 – Aug 2022*
- Major in Statistics