Calum Hrabi

Software Developer

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Skills

Programming Languages: Go, Python, JavaScript / TypeScript
Frameworks: React, React Native, Express, Flask, Django, SQLc, TensorFlow, Keras, Pandas, PySpark
Other Tools: Terraform, Docker, MySQL, PostgreSQL, NoSQL, AWS, CloudFormation, GCP, Firebase

Experience

Back-End Developer - Kablamo Canada Inc
June 2025 - Present
- Developed backend microservices using **Go** and **AWS** to manage requests for a Fin-tech Mobile Application
- Designed and implemented an event-sourced model using **Go** to process **Kafka** transaction events from the core banking system for user display and audit logging
- Improved domain model for the product fulfillment service to support new features and improve scalability

Full-Stack Software Engineering Intern - V2 Cloud Solutions
Sept 2024 - Jan 2025
- Designed and implemented new APIs using **Python** and **Django** to manage requests for a SaaS cloud services dashboard, enhancing backend functionality and scalability.
- Built and refined **React** frontend features aligned with Figma designs to deliver a seamless and visually cohesive user experience.

Back-End Software Engineering Intern - Kablamo Canada Inc
Jan 2024 - May 2024
- Developed serverless backend of Fin-tech Mobile Application using **Golang** and **AWS Lambda**, addressing needs of an high-profile client.
- Collaborated with DevOps team to implement **AWS Kinesis** Data Stream, enabling real-time streaming of Lambda API logs to **Datadog** for enhanced monitoring and analysis.
- Created an internal CLI tool using **Go** and **Cobra** to generate comprehensive unit test coverage reports for 80+ Git repositories.

Front-End Software Engineering Intern - Kablamo Canada Inc
May 2023 - Aug 2023
- Contributed to frontend of a Fin-tech Mobile Application using **React-Native** and **Typescript**, catering to the needs of an enterprise-level client.

Full-Stack Developer – Vluence
Sept 2022 - May 2023
- Developed **React-Native** components using **TypeScript** for home page of social media mobile application
- Created **REST APIs** using **Express** to handle CRUD requests for the mobile app
- Implemented ETL pipeline using **Python**, **Pandas**, **BS4**, and **PostgresSQL** to extract SEC filing data

Software Developer – Environment and Climate Change Canada
Jan 2022 - April 2022

Projects

Machine Learning Crypto Trader
- Predicted the hourly price of Ethereum with **<0.1 Mean Average Percent Error**, using a **Bi-directional LSTM** neural network with **TensorFlow/Keras**, based on historical time-series data
- Implemented an ETL pipeline to process real-time and batch data, using **Kafka**, **PySpark**, **Pandas**, **Keras**, and **MongoDB**, to optimize the precision of the model

SoundBite AI Meeting Transcription
- Created a full-stack application using **GCP** Speech-to-Text and **OpenAI APIs** to generate customized summaries of audio snippets, improving accessibility to spoken content.
- Implemented secure user authentication with **Firebase**, and managed CRUD operations with **Express** and **Node.js** to enable smooth data handling and user account management.

Education

University of Waterloo
Waterloo, ON
B.ASc in - Management Engineering
Sept 2020 - April 2025