LinkedIn: @TheJakeCooper Portfolio: www.JakeCooper.me



(347) 757-2499 github.com/JakeCooper

## **Experience**

Bloomberg Software Engineer July 2018 - Present

- Developed a GraphQL microservice for modifying and querying client commission structures.
- Ported sell side C++ services to Linux and Kubernetes to allow instant rollout/rollback.
- Developed a system for just-in-time verification/serialization of XML-style protocol buffers.
- Aided in development of TCP-style protocol implementation of Golang services.

Wolfram Research Software Engineer May 2016 – July 2018

- Rebuilt the Wolfram Cloud frontend using React, MobX, and Flow.
- Created an event queue to pass information around the application.
- Built out the Wolfram Files project to allow uploading/editing of Mathematica Notebooks and other files.
- Cut code review by 80% by implementing code linting on development builds and pull requests.

Hootsuite Software Engineer Intern Sept 2015 – Dec 2016

- Utilized the Facebook API to create a custom thumbnail link sharing feature used by 10M+ people.
- Developed a live video playback feature for Facebook and YouTube video uploading using AWS Lambdas and S3.
- Cut deploy time by 90% by automating the Chrome Applications bundling and submission process.

IBM Data Scientist Intern Jan 2015 – April 2015

- Visualized more than a billion dollars in IBM software sales using D3.js and graph algorithms.
- Developed a metrics system for tracking employee targets and performance throughout the year.
- Calculated end of year bonuses for salespeople and teams based on sales metrics and performance.

## **Education**

University of Victoria (3.6 GPA)

**Bachelor of Software Engineering** 

May 2018

## **Projects**

Demos, code samples, and additional project information can be found at http://www.github.com/JakeCooper

CoinExchange: A scalable, distributed microservice-oriented cryptocurrency exchange.

TypeScript, Golang,

- Implemented a microservice architecture (RabbitMQ, Redis) to achieve 25,000+ TPS.
- Built a web socket hub service to relay information to thousands of concurrent users.

PlzTeachMe: A live editing tool for teaching web development in a classroom setting.

React, Firebase

- Created an in-browser IDE for web development with live client synchronization.
- Winner of "Top 10" at PennApps XV.

Antidose: An Android application for identifying and responding to nearby overdoses.

**Golang, Postgres** 

- Engineered a service to provide live information and turn-by-turn navigation.
- Winner of "Best Software Capstone" for UVic's Engineering Capstone Project.

## **Skills**

Languages: JavaScript, TypeScript, Golang, Python, Node.js, Java, C++, MongoDB, MySQL, PostGres

Tools and Frameworks: React, MobX, React Native, D3.js, Keras, Tensorflow, Git, Docker, Android, Redis, RabbitMQ