


William Lo

University of Waterloo, Bachelor of Software Engineering 2020

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Technical Skills

- **Languages:** Python, Go, Java, JavaScript, C++
- **Frameworks:** gRPC, Django, React.js, Flask, Node.js, scikit-learn
- **Tools:** Redis, PostgreSQL, MongoDB, Git, Kubernetes, Docker, Chef

Experience

LinkedIn | Systems and Infrastructure Engineering Intern – Apache Gobblin Team Sept 2019 – Current

- Migrating Gobblin-as-a-service to Docker and Kubernetes to improve scalability and deployments

Nvidia | Cloud Infrastructure Intern – Autonomous Vehicles Team Jan 2019 – Apr 2019

- Architected microservices using Go, gRPC, PostgreSQL, and AWS S3 to provide version-controlled modifications and storage of HD maps
- Integrated gRPC endpoints with a client side map editing tool to download and save maps using TypeScript
- Automated map quality control by developing a pipeline to collect comparison metrics between maps
- Developed services to support sharding and partial loading of maps through geolocation queries

Datadog | Software Engineering Intern - Web Integrations May 2018 – Aug 2018

- Implemented a skipped job queue in Redis to handle consistently failing jobs from Redis workers, which optimized performance of web integration notifications
- Developed an integration for Google Hangouts Chat to subscribe to real-time alert messages from Datadog using a Redis worker and RESTful API
- Architected a web crawler to concurrently collect and parse metrics from Travis CI in Python

Zenreach | Full Stack Developer Intern - Core Product Team Sep 2017 – Dec 2017

- Refactored legacy Django endpoints to a shared API layer in Go, leading to improved performance and reduced code duplication among multiple products
- Scoped, designed, and implemented a new user sign up flow with Django and React.js
- Led the UI revamp of the main dashboard web app using React.js and SCSS

TribalScale | Agile Software Engineering Intern Jan 2017 - Apr 2017

- Improved player name recognition for an Amazon Alexa and Google Home sports app in Node.js
- Implemented websites using server-side React.js to reduce load times by over 20%

Innovasium Digital | Web App Developer Intern May 2016 - Aug 2016

- Led the development of an online web page composer using React.js and Rails
- Optimized the drag-and-drop layout builder to load web components from linear to constant time

Projects

LinkedIn/Cruise-control May 2019 - Current

- Added features to improve usability of Cruise Control's API
- Collaborated with classmates and the code maintainers to design an OpenAPI integration to improve documentation and usability