


William Lo

University of Waterloo, Bachelor of Software Engineering 2020

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Technical Skills

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

Experience

Nvidia | Cloud Software Intern – Autonomous Vehicles Team Jan 2019 – Apr 2019 | Santa Clara, CA

- Architected gRPC services to provide versioned storage of manually edited HD maps using Go, PostgreSQL, and AWS S3
- Improved map quality control by developing a cloud validation pipeline to compare new HD maps with ground truth maps using Go and C++.

Datadog | Software Engineering Intern - Web Integrations May 2018 – Aug 2018 | New York City, NY

- Implemented a skipped job queue in Redis to handle consistently failing jobs from Redis workers, which eliminated redundant retries of workers to improve performance
- Developed a chat bot for Google Hangouts Chat to send real-time alert messages from Datadog through a Redis worker and RESTful API
- Architected a web crawler to concurrently collect and parse metrics from Travis CI in Python

Zenreach | Full Stack Web Developer - Core Product Team Sept 2017 – Dec 2017 | Kitchener, Canada

- 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 Engineer Jan 2017 - Apr 2017 | Toronto, Canada

- 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 May 2016 - Aug 2016 | Toronto, Canada

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

Quanser | Software Engineering Intern Jul 2014 - Jul 2014 | Toronto, Canada

- Integrated a robotic system with a Microsoft Kinect, which was featured at NI Week 2014

Projects

Kontex

- Developed a trainable extractive summarizer based on features such as keywords and sentence to sentence cohesion with a Naïve Bayes classifier