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, Kubernetes, Chef

Experience

Nvidia | Cloud Infrastructure Intern – Autonomous Vehicles Team   Jan 2019 – Apr 2019
- Architected microservices to provide version-controlled modifications and storage of HD maps using Go, gRPC, PostgreSQL, and AWS S3
- 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

Quanser | Software Engineering Intern   Jul 2014
- Integrated a robotic system with a Microsoft Kinect, which was featured at NI Week 2014

Projects

Kontex   Dec 2017 - Jan 2018
- Developed a trainable extractive summarizer based on features, such as keywords and sentence to sentence cohesion, with a Naïve Bayes classifier