William Lo

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Technical Skills

- Languages: Python, JavaScript, Go, C++, Ruby
- Frameworks: Django, React.js, Flask, Node.js, scikit-learn, Rails
- Databases: MongoDB, PostgreSQL, Redis

Experience

Zenreach | Full Stack Web Developer - Core Product Team — Sept 2017 - Present

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

TribalScale | Agile Software Engineer — Jan 2017 - Apr 2017

- Improved player name recognition for an Amazon Alexa and Google Home sports app in Node.js
- Utilized server-side rendering React.js to reduce load times for websites by over 20%
- Developed an interactive data visualization with P5.js for CIBC's Canada Day web app

Innovasium Digital | Web App Developer — 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 run from linear to constant time
- Refactored the infrastructure of the app to easily support new features such as an undo/redo function
- Implemented file management systems, graphs, data tables, forms, and a rich text editor

Quanser | Software Engineering Intern — Jun 2014 - Aug 2014

- Developed and tested features for Arduino, Raspberry Pi, and myRIO systems
- Integrated a robotic system with a Microsoft Kinect, which was featured at NI Week 2014

Projects

Kontex — Dec 2017- Present

- Developed a trainable extractive summarizer based on features such as keywords, sentence to sentence cohesion and similarity to the title
- Utilized scikit-learn to classify sentences with a Naïve Bayes classifier.

Code/r — Jun 2016

- Developed a web app that performs image recognition to interpret written Python code
- Utilized Microsoft Azure's machine learning API with Node.js

Education

University of Waterloo, Bachelor of Software Engineering (2020) — Sep 2015 - Present