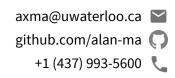
Alan Ma



Education -

University of Waterloo | B.Sc. Software Engineering

2018 - 2023

• 3.8/4.0 GPA – 87% Cumulative Average; President's Scholarship of Distinction

Skills -

Languages: Python, SQL, JavaScript, Java, Go, C/C++, Scala, C#

Technologies: MongoDB, Hadoop, Flask, Vue.js, Node.js, Angular, AWS SQS, Firebase, Git

Experience -

Wish | *Software Engineering Intern*

January - April 2020

- Designed a new product feed in **Python**, growing profit from ad revenue by \$2.3 million annually
- Optimized automated marketing campaigns by A/B testing ranking algorithms that compiled data from MongoDB and Hive SQL, boosting the click rate of notifications by 15%
- Engineered a push notification library to improve security with the OAuth2 model, using distributed processing and **AWS SQS** to deliver 500 million notifications per day

Oracle NetSuite | *Software Engineering Intern*

May - August 2019

- Built APIs and user interfaces in Java to streamline the management of bonuses in payroll software
- Developed a more robust algorithm to calculate accrued paid time off, preventing compensation errors
- Migrated data in **Oracle SQL** as part of a team effort to hotfix inconsistent account settings

SOTI Inc. | *Software Engineering Intern*

July - August 2018

- Developed REST API endpoints in C# to deliver vehicle information in a fleet management application
- Created components and services in Angular and TypeScript to enable vehicle customization

Projects -

DECA Online Education Platform | hub.decawoodlands.com

2017 - 2020

- Developed a full-stack application for business club members using Python and Vue.js, leading to a 50% increase in members qualifying for international competitions
- Implemented user roles and token-based authentication to secure REST API endpoints in a Flask server
- Integrated with Firebase Cloud Firestore to allow for a flexible and scalable NoSQL database

FireWatch – Hack the North 2018 Winner | devpost.com/software/firewatch

2018

• Built a website that warns local residents about dangerous wildfires, using **JavaScript** to display real-time satellite data

Extracurricular Activities

Hack the North | Organizer

2019 - Present

• Coordinated transportation logistics to bring 1,500 students from over 20 countries to Waterloo for Canada's biggest hackathon

Google Code Jam | Competitor

2020

Competed in Google's global coding competition, placing in the top 11% of 40,000 contestants worldwide