# Alan Ma

#### **Education** -

**University of Waterloo** | *B.Sc. Software Engineering* 

2018 - 2023

• 3.51 GPA – 88% 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 January – April 2020

Software Engineering Intern

Toronto, ON

- Designed a new product feed in **Python**, resulting in annual profit growth of \$2.3 million in ad revenue
- Optimized automated marketing campaigns by using MongoDB and Hive SQL to tap into historical data, boosting notification click rate by 15%
- Engineered a secure messaging library to deliver 500 million notifications per day using new API standards

Oracle NetSuite May – August 2019

Software Engineering Intern

Waterloo, ON

- 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

SOTI Inc.

July – August 2018

Software Engineering Intern

Mississauga, ON

- 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 learning platform for business club members using **Python** and **Flask**, leading to a 50% increase in members qualifying for international competitions

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

2018

• Built an application that warns local residents about dangerous wildfires, using **JavaScript** and **Vue.js** to display real-time data from NASA satellites

#### 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