

Zi Gao

CONNECT

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<https://www.zigao.io>

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EDUCATION

University of Ottawa

BASc. Computer Science

Expected: May 2022

RELEVANT COURSES

Computer Science

Databases I, II

Operating Systems

Systems Architecture

Data structures & Algorithms

Design & Analysis of Algorithms

Distributed Systems Theory

Data Comm. & Networking

Web Development

Programming Paradigms

C++ Advanced Concepted

Mathematics

Probability & Statistics

Linear Algebra

Calculus I, II

Discrete Mathematics

SKILLS

Python, TypeScript, Java, Scala,
Go, C++, SQL, MongoDB, React,
NodeJS, Kafka, Spark, Hadoop,
AWS, Docker, git, Linux, OOP,
Functional Programming, AWS,
GraphQL, System & API Design

AWARDS

Schulich Leader Nominee

Governor General of Canada

Academic Medalist (98% avg)

Leetcode Contest Rating Top 10%

EXPERIENCE

Google · Software Engineer Intern · Cloud ML Platform · Python, Typescript

New York City, NY | June 2020 – September 2020

- ▶ Summer SWE intern, currently developing machine resource optimization features for Google Cloud's machine learning platform

Tesla · Software Engineer Intern · Data Engineering · Scala, Go, Kafka

Palo Alto, CA | September 2019 – December 2019

- ▶ Developed auditing service for data pipelines, verifying payload correctness and detecting malicious / corrupted data
- ▶ Optimized image storage and utilization using bounded buffers, reducing expensive file system operations and memory usage by over 200%

Microsoft · SWE + Product Management Intern · Azure Backend · C#, SQL

Seattle, WA | May 2019 – August 2019

- ▶ Architected a distributed and automated training, testing and evaluation data pipeline for malware detection models on Azure ML studio (hackathon)
- ▶ Wrote PM feature specs; designed and created new Microsoft Graph API endpoints for device enrollment token data, exponentially reducing number of legacy API calls, and reducing request latency by over 10s on average

Intel · Software Engineer Intern · VxWorks OS · C, Python, Docker

Ottawa, ON | May 2018 – August 2018

- ▶ Created priority target reservation tooling for developers, dockerized development environments to reduce setup times by up to 90%, wrote tests for VxWorks OS, currently operating on NASA's Mars Rover

STARTUPS & PROJECTS

Tutorhall · Tutoring and E-Learning · Co-Founder, Technical Lead

<https://tutorhall.ca> | September 2019 – June 2020

- ▶ Secured over \$50,000 in funding with a projected ARR of \$1 million for 2020

Nitelite · Data and Analytics for Venues · Co-Founder, Technical Lead

<https://zigao.io/nitelite> | January 2019 – August 2019

- ▶ Led a team of 3 developers to create a data analytics application for night life venues, using technologies like Apache Spark and Apache Hadoop
- ▶ Worked with clients and performed customer discovery interviews to develop product specifications and flesh out features

Hoppier · Full stack Intern · React, GraphQL, Node JS, PostgreSQL, AWS

<https://hoppier.com> | January 2019 – April 2019

- ▶ Led the front to back development and design of a multi-cart shopping system, securing high-spend customers, generating over \$500k in revenue

Lynqup · Social Media App · React, REST, Node JS, MongoDB, NGINX

<https://zigao.io/lynqup> | October 2017 – April 2018

- ▶ Programmed friend graphs and event recommendations, server deployment using nginx on an EC2 instance as a static file server and reverse proxy