CONNECT





in /Adam Ding

/wqding

LANGUAGES

Golang
Python
C++
C
Java
JavaScript
SQL

FRAMEWORKS/TOOLS

Node.js, React, Redux,
Django, React Native,
TensorFlow, Git, AWS,
PostgreSQL, MySQL, Firebase,
MongoDB

EDUCATION

University of Waterloo 2023

Bachelor of Applied Science
in Computer Engineering

FUN FACTS

- I am the recipient of the WCHS Male Vocalist of the Year Award
- I can eat 12 slices of pizza in **15 mins**
- The world's heaviest bench press is 1,102 lbs by Paul Meeker
- My max bench is 225lbs

ADAM DING

adamding.me

EXPERIENCE

Backend Developer – Sandvine

Jan. 2021 - Apr. 2021

- Implemented features in the **Network Data Analytics Function (NWDAF)** as defined by the **5G Core architecture** using **Golang**.
- Built a **multi-threaded** pipeline for initialization tasks to increase data collection microservice startup time by 2.5x.
- Designed and implemented the workflow for tracking and managing subscriptions made towards network-functions on NWDAF.
- Developed the **data access layer** for **Vertica** and **MySQL** databases for the NWDAF Data Collection microservice in **Golang**.

Full-Stack Developer – KnowHow

May. 2020 - Aug. 2020

- Independently architected an analytics dashboard to aggregate and visualize customer-product engagement metrics and MRR data with AWS Lambda, Chart.js, and Pycopg2.
- Implemented a secure user refund and cancellation workflows on their annual subscriptions with **Python** and the **Stripe API**.
- Improved our product initial load time by 33% by integrating system wide lazy loading of images by retrieving resized images using AWS Lambda and S3.

Firmware Developer – Midnight Sun Solar Rayce Car Aug. 2019 – Feb. 2020

 Designed and wrote software in C for the car's front power distribution to supply power to components, using CAN Bus for cross microcontroller communication.

PROJECTS

Neural Net Minus – github.com/wqding/Neural-Net-Minus

- Designed and programmed a neural network library **from scratch** capable of generating **neural networks of any configuration**
- Implemented the back-propagation algorithm using **stochastic gradient descent**, leveraging multi-variable calculus and linear algebra concepts.

SUNify - github.com/wqding/SUNify

• Built and trained a **CycleGAN** image processing model in **Tensorflow** to generate sunny images from cloudy images.

Productive Ambience - github.com/wqding/Productive-Ambience

• Developed and deployed a **MERN stack (Mongo, Express, React, Node)** app using **AWS** to create custom auditory environments and boost productivity.