


CONNECT

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 /Adam Ding

 /wqding

LANGUAGES

Python

C++

C

Java

JavaScript

XML

HTML/CSS

FRAMEWORKS/TOOLS

Node.js, React, Redux,
Django, React Native,
TensorFlow, Numpy, 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 2018 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

Software Developer – KnowHow

May. 2020 – Aug. 2020

- Independently architected an **internal analytics dashboard** to aggregate and visualize customer-product engagement metrics and MRR data with **AWS Lambda, Chart.js, and Pycopp2**.
- Improved product initial load time by 33% by integrating system wide **lazy loading** of images by retrieving resized images using **AWS Lambda** and **S3**.
- Implemented secure user refund and cancellation workflows on their annual subscriptions with **Python** and the **Stripe API**
- Collaborated with PMs and designers to release heavily requested features to the desktop and mobile app, such as filtering data by tags and viewing employee progress on assignments with **React, React Native** and **Django**

Software Developer – DragonAgile Consulting Inc.

Sep. 2019 – Dec. 2019

- Spearheaded the development and deployment of a **full stack app** for the JIRA Suite using **Express.js, Java, and Atlassian APIs** to protect and manage sensitive information in issues (**900+ users**)
- Built a visualization/management tool for sensitive data from the Google Data Loss Prevention API for users to review and manage
- Architected **AES** encryption pipeline leveraging **Crypto.js** to securely store protected information on Atlassian's database
- **Consulted and collaborated with clients** developing software for JIRA Cloud

Firmware Engineer – 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 specific components as required
- Utilized **CAN Bus network** 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 techniques from multi-variable calculus and linear algebra

 **Productive Ambience** – view: pa.adamding.me

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

 **SUNify** – github.com/wqding/SUNify

- Built and trained a **CycleGAN** image processing model in **Tensorflow** to generate sunny images from cloudy images
- Programmed an input pipeline to apply various data augmentation techniques to images including Random Jittering, Mirroring, and Cropping