TECHNOLOGIES

Languages:

JavaScript, Python, Java, C++, C

Web Development:

Node.js, React, JQuery, Spring, Handlebars, Apache Velocity

Database:

MongoDB, Mongoose, SQL, PostgreSQL

Machine Learning: Tensorflow

CONNECT





/wqding

EDUCATION

UNIVERSITY OF WATERLOO

Computer Engineering Honors 2018 - 2023

ACHIEVEMENTS

Western Canada High School

- Male Vocalist of the Year
- Honor Society Lifetime Member

Government of Alberta

- Alexander Rutherford Scholarship (\$2500)

VOLUNTEERING

Bethany Retirement LivingChurch service assistant

ADAM DING

adamding.me

EXPERIENCE

Software Developer – DragonAgile Consulting Inc. Aug. 2019 – Dec. 2019

- Spearheaded the development and deployment of a full stack app for the JIRA Suite using Node.Js, Java, and Atlassian JS+REST APIs to protect and manage sensitive information in issues (900+ users)
 - Visualized data from the Google Data Loss Prevention API to automatically detect sensitive information
 - o Architected symmetric encryption pipeline leveraging Crypto.js to securely store protected information on Atlassian's database
- Consulted clients developing software for JIRA Cloud

Firmware Engineer – Midnight Sun Solar Rayce Car Aug. 2019 – Present

- Designed and programmed 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

Software Engineer – PointClickCare

Jan. 2019 - Apr. 2019

- Automated the data processing of 1134 entries from the Medicare.gov API by
 developing an internal application in Java, following ORM methodologies with
 the Java Persistence API; removed the need for weekly cross team
 collaboration
- Implemented 9 new rules to internal Drools rule engine repository; enhanced flagship product's ability to detect conflicts in user input by 14%

PROJECTS

Productive Ambience – services.adamding.me Sep. 2019 – Dec. 2019

- Built and deployed a **MERN stack (Mongo, Express, React, Node)** app to create custom sonic environments and boost productivity
- Implemented password salting using brcypt, and jwt authentication; allowing users to save/load multiple configurations

SUNify

Nov. 2019 - Dec. 2019

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

Neural Net Minus

Sep. 2019 - Nov. 2019

- Designed and built a neural network library **from scratch** capable of generating **fully connected neural networks of any shape**
- Implemented the back-propagation algorithm using gradient descent, leveraging multi-variable calculus and matrix math
- Programmed the model prediction pipeline by following the feed forward algorithm and performing complex matrix operations using the numpy library