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 Honours 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)
 - Presented automatically detect 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 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
- Followed **ORM** methodologies with the **Java Persistence API**, removing 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 – pa.adamding.me

Sep. 2019 - Dec. 2019

- Built and deployed a **MERN stack (Mongo, Express, React, Node)** app to create custom auditory 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 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

Neural Net Minus

Sep. 2019 - Nov. 2019

- Designed and built 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
- Programmed the model prediction pipeline and performed complex matrix operations using the **numpy** library