CONNECT



647-8074808

in /Adam Ding

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TECHNOLOGIES

Languages:

C++, C, Java, Python, JavaScript, HTML/CSS, SQL,

Frameworks & Tools:

TensorFlow, Numpy, Node.js, React, Express, JQuery, Git, AWS, Handlebars

Databases:

PostgreSQL, MySQL, MongoDB

EDUCATION

UNIVERSITY OF WATERLOO

Computer Engineering Honours 2018 - 2023

ACHIEVEMENTS

Western Canada HS

- Male Vocalist of the Year
- Honor Society Lifetime Member

FUN FACTS

- I can eat 12 slices of pizza in 30 mins
- The world's heaviest bench press is 1,102 lbs by Paul
- My max bench is 200lbs

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)
 - o Built a visualization tool for auto-detected sensitive data from the Google Data Loss Prevention API for users to review and manage
 - o Architected **AES** encryption pipeline leveraging **Crypto.js** to securely store protected information on Atlassian's database
- Consulted clients developing software for JIRA Cloud

Software Engineer – PointClickCare

Jan. 2019 - Apr. 2019

Aug. 2019 - Present

- 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%

Firmware Engineer – Midnight Sun Solar Rayce Car

- 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

PROJECTS

Neural Net Minus

- 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

Productive Ambience – link: pa.adamding.me

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

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