MICHAEL MARCHESI
https://michaelmarchesi.github.io/michaelmarchesi

INFO

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Thesis (WIP)

Options to Address Public Concern
Regarding Wireless Base Station
Installations For 5G
Supervisor: Dr. David Michelson

Skills

Computer skills:
Machine Learning:
ELEC400M Fundamentals of ML
Software: Python, MATLAB, C
CAD: Fusion360

Certifications:
PADI Advanced Open Water Diver

Hobbies

Piano
Scuba Diving
Skiing, Snowboarding
Photography
Cryptomining

Languages

English – Fluent

French – Intermediate

EXPERIENCE

Multi-class classification Neural Network
Vancouver
Feb 2021– Apr 2021
- Implemented Gradient Descent with Momentum in Python to classify MNIST dataset

Adjunctive Oral Cancer Screening Device
Vancouver
Sep 2020 – Apr 2021
- Handled 3D printing of shell and 3D rendering of product due to Covid-19 restrictions
- Performed literature review to validate results thermal simulations against peer-reviewed research papers

3D Printed Face Shields
Port Moody
Jul 2020 – Sep 2020
- 3D printed 120+ face shields to be donated to teachers at Port Moody Secondary
- Used Fusion360 to model face shield for 3D Printing
- Compiled C++ Marlin firmware, update includes TRP, ABL, silent operation

Jr. Full-stack Developer, Kiwi Collection
Vancouver
May 2019 – Dec 2019
- Refactored JavaScript Behat feature tests, fixed broken tests during package upgrades
- Containerized a SFTP server for account managers using Docker and Ansible
- Updated VM provisioning scripts to reduce CSS/JS Gulp times in Ansible
- Configured Google Analytics for A/B site testing
- Implemented image lazy loading in JavaScript to increase page performance

Build & Release Engineering Intern, GE Digital
Burnaby
Sep 2018 – Apr 2019
- Used build tools such as Jenkins to automate the process for developers to package their applications, provision AWS stacks, run test suites and deploy the package
- Streamlined updates to dashboard so all teams had visibility of CI/CD pipeline
- Wrote Bash scripts for devs to provision fast stacks

RC4 Encryption/Decryption DE1-SOC
Vancouver
Feb 2018 – Mar 2018
- Implemented brute force cracking

Co-op Web Developer, Kiwi Collection
Vancouver
May 2017 – Dec 2017
- Merged and deployed code base using Git, Jenkins, and AWS
- Learned how account managers processed information from clients and automated the workflow in Salesforce using Apex triggers

Magnetic Line Tracking Robot
Vancouver
Jan 2017 – Mar 2017
- Programmed the F38x microcontroller in C. Prototyped circuits using breadboard and built a robot able to follow a wireless track that emitted signals created from breadboarded transmitter. Used oscilloscope, multimeters, power supplies to test circuits

EDUCATION

Electrical and Computer Engineering, University of British Columbia
Vancouver
Sep 2016 – May 2021
Bachelor of Applied Science
GPA: 3.40

Engineering Transfer Certificate, Langara College
Vancouver
Sep 2015 – May 2016
GPA: 3.40