Waez Dewan

Residency Status: Green Card Holder
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EDUCATION

SIMON FRASER UNIVERSITY
BASc in Computer Engineering
Exp. Aug 2019 | Burnaby, BC, Canada

LINKS

Github:// **waezdewan**
LinkedIn:// **waezdewan**
Website:// **waezdewan**

COURSEWORK

UNDERGRADUATE

Database Systems
Operating Systems
Data Structures & Algorithms
Data Mining
Advanced Digital System Design
Linear Systems
Communication Systems
Digital Signal Processing

SKILLS

LANGUAGES

Ruby
Python
C / C++
SQL
R
VHDL
HTML
CSS
JavaScript

TOOLS AND FRAMEWORKS

Git
Rails
Docker
MATLAB
Travis
Jenkins
JIRA

DEVELOPMENT

Agile Methodology
Object-oriented Programming
Test-driven Development
Behaviour-driven Development

EXPERIENCE

WEBNIFICO | Software Engineer Co-op (Back-end)

Sep 2018 – May 2019 | Vancouver, BC, Canada

- Collaborated with team members to implement new features for the product in **Ruby on Rails** while following **Test-driven Development** and **Behaviour-driven Development**
- Introduced non-intrusive event based logging within the product through the use of **Dry-Transactions**
- Re-factored code base and introduced a factory to instantiate all services and **injecting dependencies** when necessary
- Updated relational database models and constructed **RESTful API** endpoints to accommodate newly implemented services
- Contributed to writing integration tests to validate the functionality of services

PLAN B ENERGY STORAGE | Software Developer Co-op

Jan 2016 – Aug 2016 | Vancouver, BC, Canada

- Designed and developed a Graphical User Interface in **Python**, which connected to modular battery systems to log data and provided real-time information and graphs
- Implemented API calls for the Battery System Controller and Graphical User Interface in **C** and **Python** respectively
- Constructed **Python** scripts for unit testing of new and existing API calls
- Utilized Graphical User Interface for in-house testing, presenting data, and providing suggestions for further testing

PROJECTS

CIDAFRAME | Capstone Project

Jan 2018 – Aug 2018 | Simon Fraser University

- Collaboratively designed and built a dual axis camera tracking mount that utilizes a smartphone to track and follow the movements of a person
- Developed Android Application to detect faces and communicate with the prototype via Bluetooth
- Tested and integrated rechargeable 18650 batteries to power the prototype and charge attached smartphone

FACE DETECTION | Advanced Digital System Design Project

Jan 2018 – Apr 2018 | Simon Fraser University

- Collaboratively designed and developed a face detection system which allowed users to select between software or hardware filter implementations
- Developed initial bare-metal software implementation, in **C**, to detect faces from an image file
- Streamed data from SD card to AXI4-Stream Data FIFO to provide data to hardware filters
- Designed and verified YCbCr, HSV, Threshold, and Spatial filters in **VHDL** to detect faces

CLASSIFYING TITANIC PASSENGERS | Data Mining Project

Oct 2017 – Nov 2017 | Simon Fraser University

- Extracted, transformed, and loaded (**ETL**) data of passengers on the Titanic
- Applied Linear Regression Models, Support Vector Machines, Decision Trees, and Random Forests with **R** to predict survival outcomes