Sean Su

ENGINEERING GRADUATE · FULL STACK DEVELOPER · CODING HOBBYIST

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About

An electrical engineering graduate with 1 year of software development experience and a strong aptitude to learn. Seeking entry level software engineering/development positions

Skills

Front-End Development	ReactJS (Redux, MaterialUI), HTML, JavaScript (Vanilla, JQuery), CSS (Bootstrap)
Back-End Development	Node.js/ExpressJS, EJS, Python (functional and object-oriented), RESTful APIs
Database Development	SQL (MySQL), NoSQL (MongoDB, Mongoose)
QA and Testing	Postman
Version Control	Github
Other Languages	C, C++, Java, Bash, Verilog, VHDL
Spoken Languages	Spanish (Intermediate), English (native)

Projects

Web-Based Energy Management System *Toronto, Canada*

ENGINEERING CAPSTONE (ENG 4000) *Sept 2020 - April 2021*

- Quality Assurance Lead and Backend engineer for developing a web-based energy management system (EMS)
- Collaborated with a team of engineering students in creating an extensive Python simulation, which simulates several energy systems including Battery-Energy Storage Systems, Multi-Unit Residential Buildings, and EV chargers + their car-flow
- Created a backend Python cost calculator that projects future costs for EV charging costs, inputs such as inflation, vehicle maintenance and electricity cost trends were considered
- Debugged code and stress tested the simulation using Postman

Doorbell Project *Toronto, Canada*

EMBEDDED SYSTEMS (EECS 3215) *January 2020 - April 2020*

- Created a Doorbell with a remote chime using the LPC 802 Microcontroller for the Embedded Systems term project
- The project contained two sensors and two actuators for input/output
- Programmed the Microcontroller in C for functionality and connections to external peripherals

Work Experience

Quality Assurance Co-op Student *Mississauga, Canada*

CERTAINTEED GYPSUM *April 2019 - August 2019*

- Maintained the backend of the Quality Index Database (QI) using Microsoft Access
- Collaborated with managers and leads to restructure web drivers for the company
- Created Standard Operating Procedures (SOP's) outlining the features of the QI Database
- Created weekly quality index reports

Rides Operator *Vaughan, Canada*

CANADA'S WONDERLAND *April 2016 - August 2018*

- Operated rides in a safe and quick manner
- Performed daily maintenance checks on rides
- Collaborated with fellow crew members to ensure guest safety and satisfaction
- Attended to guest needs to ensure park enjoyment

Education

Bachelor of Engineering (BEng) in Electrical Engineering *Toronto, Canada*

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY *Expected June 2021*