

Sean Su

ELECTRICAL ENGINEER · WEB DEVELOPER · CODING ENTHUSIAST

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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, CSS (Bootstrap), EJS |
| Back-End Development | Node.js/ExpressJS, Python (functional and object-oriented), RESTful APIs |
| Database Development | SQL (MySQL), NoSQL (MongoDB, Mongoose) |
| QA and Testing | Postman |
| Other Languages | C, C++, Java, Bash, Verilog, VHDL |
| Spoken Languages | Spanish (Intermediate), English (native) |

Projects

Spanish Flash Card Application

Richmond Hill, Canada

PERSONAL PROJECT

June 2021

- Created a flash card application of the 2000 most used Spanish nouns using React
- Ability to create and delete flashcards as desired
- Created a RESTful API of the nouns and hosted it on heroku
- Used functional based components to create the card list and flash cards

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Web-based Energy Management System

Toronto, Canada

ENGINEERING CAPSTONE (ENG4000)

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 to ensure the application ran without bugs and as needed

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 reorganize web drivers for the company
- Created Standard Operating Procedures (SOP's) outlining the features of the QI Database
- Worked alongside production engineers to revise and revamp the machinery SOP's
- Assisted the QA Manager in creating weekly quality index reports
- Assisted upper management in administration work as needed

Education

Bachelor of Engineering (BEng) in Electrical Engineering

Toronto, Canada

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY

Expected June 2021