# 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

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|---|---|
| **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

### 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

### Spanish Verb Conjugator Application
*Richmond Hill, Canada*

PERSONAL PROJECT — *June 2021*

- Created a Spanish verb conjugator application using Node.js/Express, HTML, EJS and CSS (Bootstrap)
- Can conjugate verbs in the three moods and all five tenses
- Used the npm package 'conjugator' as the backend and implemented javascript object destructuring to implement the objects returned

### 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 restructure 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
- Created weekly quality index reports

## Education

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

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