

# Edward Cong

COMPUTER ENGINEER • ENTHUSIASTIC DEVELOPER

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## Skills

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**Languages** Python, JavaScript, TypeScript, C, Java, Verilog, MATLAB

**Front-End Development** React, React-redux, Material UI, HTML, CSS

**Operating System Environments** Windows, Linux, Ubuntu

**Tools** Github, Postman

**Databases** PostgreSQL, MongoDB

**Others** Algorithms, Communication, Problem-solving, Adaptability, Dependability

## Experience

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### Public Services and Procurement Canada

North York, Canada

WEB DEVELOPER

Sept 2018 - Dec 2018

- Worked with team to complete the web version of Public Accounts of Canada 2018, paying strong attention to detail confirming and correcting any differences or mistakes between versions
- Completed tasks individually including:
- Reskinned an events module currently in use by staff within the building, using HTML, CSS, and WET4.0 guidelines
- Performed Quality Assurance and testing on modules created by senior members and distributed to other departments, ensuring cross-functionality between browsers
- Continuously updated documentation and guides used within the team annually for Public Accounts web conversion, updating and improving existing instructions and creating new sections

## Projects and Coursework

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### Front-End Developer

Toronto, Canada

ENGINEERING CAPSTONE (ENG4000)

Sept 2020 - April 2021

- Worked with 4 other team members to develop a web-based Energy Management System (EMS)
- Primarily developed front-end using ReactJS + Material UI, JavaScript
- Analyzed code for REST API and back-end to trace any bugs outside of the front-end, using NodeJS and Python
- Developed UI for various components, including graphs and charts to show energy usage of a MURB, energy usage of EV Chargers,
- Used Postman and MongoDB during development to test API, end-to-end communication, ensuring that information was being read from and sent to the database correctly

### Design and Analysis of Algorithms

Toronto, Canada

COURSEWORK

January 2019 - April 2019

- Analyzed different types of algorithms (iterative, recursive, greedy)
- Created pseudo-code and justified correctness of algorithms, performed runtime analysis
- Discussed data structures and such as trees, arrays, lists, etc. and their run times

### Personal Blog (WIP)

Online

PERSONAL DEVELOPMENT PROJECT

- Utilizing and learning a MERN stack to develop a web-application
- Strengthening HTML, CSS, React and redux skills to develop an aesthetically pleasing, functional front-end
- Researching and practicing using MongoDB to store information in the database
- Learning best practices of software development, as well as modern technologies such as TypeScript

## Education

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### Bachelor of Engineering (BEng) in Computer Engineering

Toronto, Canada

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY

2016 - 2021