Sean Wu



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seanwu.io



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Education

BASc | Engineering Science

University of Toronto | 2018-Present

- 2nd year student
- cGPA: 3.78

Skills

Software Development

Experienced
Python • MATLAB
Proficient

C • Java

Web/Mobile

Android • HTML • CSS • JavaScript React JS

Databases

SQL

Development Tools

Git • GitHub • Vim • Bash

General

Languages

English • French • Cantonese

Typesetting

₽T_FX• Markdown

OS

Unix • macOS • Windows

Coursework

Completed

Data Structures & Algorithms Linear Algebra Calculus I & II Electric Circuits Computer Programming Classical Mechanics

Currently Taking

Vector Calculus & Fluid Mechanics Digital & Computer Systems Differential Equations Thermodynamics & Heat Transfer Waves & Modern Physics

Taking Next Semester

Electricity & Magnetism Quantum & Thermal Physics Probability & Statistics Mechatronics

Engineering Experience

National University of Singapore | Student Researcher

May-Aug 2019

- Developed a mathematical model for MATLAB simulations of a 1D indirect evaporative air conditioning unit
- Used MATLAB simulations to determine ideal parameter values and design configurations based on various inlet air properties and temperature conditions
- Conducted a detailed literature review and analyzed academic papers to study existing models and experimental data
- Completed a 20-page report detailing my simulation model and research findings

Trinity Montessori School | Volunteer Developer

Jan-Aug 2019

- Proposed and implemented a bulk SMS messenger application using Twilio's SMS API to enable school staff to quickly notify parents of important news
- Used Python, Tkinter, and PyInstaller to develop a functional desktop application with a simple graphical user interface (GUI)
- Programmed a local SQLite database to store, retrieve, and edit the recipients' contact info

Technical Projects

Personal Website - seanwu.io

Sept 2019-Present

- Designed a scalable and mobile-friendly website with responsive web design using HTML, CSS, and Bootstrap
- Researched and learned about domain registrars, nameservers, and DNS hosting

Android Productivity App - Finite

Dec 2018-Jan 2019

- Collaborated with a partner to create and release an app prototype on the Google Play Store
- Utilized Java, XML, and Android Studio while designing scalable layouts and adding app functionality
- Arranged frequent code reviews, managed a GitHub repository, and organized the assignment and completion of deliverables using a shared online task board

Awards

Engineering Science Research Opportunity Fellowship (ESROP Global)	2019
Faculty of Applied Science & Engineering Dean's Honours List	2018-2019
Donald C. Leigh Memorial Scholarship Recipient	2018
Faculty of Applied Science & Engineering Admission Scholarship	2018
National AP Scholar (Canada) Award	2018
Governor General's Academic Bronze Medal	2018
Schulich Leader Nominee	2018
28 th /1950 – University of Waterloo Sir Isaac Newton Physics Exam	2018
64 th /4254 – University of Waterloo Avogadro Chemistry Exam	2017

Extracurriculars