

SEAN TAN

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Portfolio: <https://seantan.software>

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Objective: Results-driven individual with three years of software development experience. Looking to leverage my programming and computer science skills in a software engineering intern role from June 2020 – August 2020.

EDUCATION

Bachelor of Software Engineering, B.S.E.

September 2017 - May 2022

Minor: Aerospace Engineering

GPA: 3.73/4.00

McGill University, Montréal, QC

Relevant Coursework: Software Development, Software Systems, Applied Machine Learning, Algorithm Design, Algorithms & Data Structures, Model-Based Programming, Software Validation, Operating Systems, Discrete Structures, Digital Logic, Linear Algebra, Probability & Statistics, Design Principles & Methods, Computer Organization, Differential Equations

Communication Arts Program Diploma

August 2013 - May 2017

Montgomery Blair High School, Silver Spring, MD

cGPA: 3.85/4.00 wGPA: 4.59/5.00 ACT: 34

SOFTWARE EXPERIENCE

Software Design Team

October 2019 - June 2020

Blockchain at McGill, Montréal, QC

- ❖ Created a point-of-sale terminal enabling vendors to accept Ethereum or ERC-20 Tokens with a 95% success rate by writing smart contracts in Solidity for the Ethereum blockchain.
- ❖ Optimized user experience by reducing task completion time by 20% through my design of the React + Bootstrap frontend UI
- ❖ Submitted a series of five technical reports to our project sponsor, Deloitte, detailing key deliverables in our design process

Software Lead – Robotics Design Team

January 2020 - April 2020

ECSE 211 Design Principles and Methods, McGill University

- ❖ Designed an autonomous search-and-rescue robot with 90% success rate by implementing localization, navigation and object avoidance algorithms in Java.
- ❖ Received 1st place honors in course-wide competition based on overall performance.
- ❖ Documented requirements, capabilities and constraints of the software system on a weekly basis.

Software Developer & Project Documentation Manager

September 2019 - December 2019

ECSE 321 Software Engineering, McGill University

- ❖ In a team of five, created a website and Android application to facilitate the pet adoption process for a local pet shelter
- ❖ Responsible for relational database design using PostgreSQL, backend implementation as RESTful services, unit and integration testing using JUnit, implementation of web and Android frontend, and setup of continuous integration using TravisCI
- ❖ Utilized an Agile (Scrum) framework to guide project management and GitHub wiki to report full project documentation

INTERNSHIP EXPERIENCE

Intern

January 2020 - Present

Snowdrop Architecture, College Park, MD

- ❖ Integrating smart home features into a modular home with a focus on sustainability and efficient energy usage
- ❖ Contributing to the architectural design and planning of a modular home that adheres to the Living Building Challenge

Microbiology & Biochemistry Intern

May 2016 - July 2016

Uniformed Services University of the Health Sciences, Bethesda, MD

- ❖ Dedicated 30+ hours per week to conducting individual bench work and research on polypoid nuclear division

SKILLS AND CERTIFICATIONS

Programming Languages & Technologies: C, Java, Python, JavaScript, ReactJS, SQL, PostgreSQL, Hibernate, Bootstrap, Node.js, Bash, Assembly, HTML, CSS, Git, Unix, MS Office Suite

Certifications: Deep Learning Specialization (Coursera), 'Ethereum & Solidity: The Complete Developer's Guide' (Udemy)

EXTRACURRICULAR ACTIVITIES

Varsity Men's Lacrosse – McGill University

August 2017 - Present

- ❖ Demonstrating exceptional time-management skills by committing 20+ hours per week while balancing a full academic course load
- ❖ *Titles:* 2017, 2018 East Conference Champions; 2017, 2018, 2019 National Semi-Finalists

National Organization for Business and Engineering

August 2017 - Present

- ❖ Attending monthly workshops & networking events that provide exposure to current events in business and engineering fields

ADDITIONAL EXPERIENCE

Shift Manager & Barista

Pitango Gelato, Washington, DC

May 2018 - Present

YHack Hackathon Participant

Yale University, New Haven, CT

October 2019

Fitness Coach

T.E.A.M. BBMAC, Kensington, MD

May 2018 - August 2018