

SEAN TAN

GitHub: seantan22
LinkedIn: seankltan
Portfolio: <https://seantan.software>

3005 Jennings Road, Kensington, MD 20895
240.938.2528 | sean.tan@mail.mcgill.ca

Objective: Results-driven individual with four years of software development experience. Aiming to leverage my programming and computer science skills in a software engineering intern role from May 2021 – August 2021.

EDUCATION

Bachelor of Software Engineering, B.S.E.

September 2017 - April 2022

Minor: Aerospace Engineering

GPA: 3.15/4.00

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, Computer Organization

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

SKILLS AND CERTIFICATIONS

Programming Languages: Java, Python, C, C++, C#, Ruby, JavaScript, Swift, SQL, Git, Bash, Assembly, HTML, CSS, Solidity

Frameworks/Environments: React, Rails, Node, PostgreSQL, MongoDB, Vue, Bootstrap

Certifications: Deep Learning Specialization (Coursera), SQL for Data Science (Coursera)

WORK EXPERIENCE

Snowdrop Architecture – Intern

January 2020 - Present

College Park, MD

- ❖ Researching smart home software features 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

PROJECTS

CoffeeRun – Co-Founder – Beverage Delivery Service

May 2019 - Present

- ❖ iOS application that provides an interface for students to place and deliver beverages on campus, make friends and message.
- ❖ Application built using Swift, Node.js with Express for RESTful APIs, and MongoDB for user, order and transaction storage.

BeatSwitch – Personal Project – Spotify Web App – <https://beat-switch.herokuapp.com/>

July 2020

- ❖ Web application for DJs to find songs based on tempo and view track features like popularity and musical key.
- ❖ Built using Node.js with Express for authentication and RESTful APIs, React, and the Spotify API.

Ethereum Point-of-Sale Terminal – Software Design Team Member

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
- ❖ Used Solidity for writing smart contracts on the Ethereum blockchain, React with Bootstrap for the web frontend, Ganache for blockchain testing, and Raspberry Pi for screen display and receipt printing

Autonomous Robot – Software Lead

January 2020 - April 2020

ECSE 211 Design Principles and Methods, McGill University

- ❖ Designed the software architecture for a 3D-printed autonomous Mindstorms robot capable of finding and retrieving a lost cart.
- ❖ Used Java to write localization, navigation and object avoidance algorithms.
- ❖ Team received 1st place honors in course-wide competition based on overall performance.

Pet Adoption Service

September 2019 - December 2019

ECSE 321 Software Engineering, McGill University

- ❖ Web application to facilitate the pet adoption process for a local pet shelter
- ❖ Used PostgreSQL for relational database, Java for RESTful APIs, JUnit for unit and integration testing, Vue.js for web frontend, and TravisCI for continuous integration
- ❖ Utilized an Agile (Scrum) framework to guide project management and GitHub wiki to report full project documentation

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

YHack Hackathon Participant

Yale University, New Haven, CT

October 2019