

# SEAN TAN

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**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

### Freelance Web Developer

June 2020 - Present

Kensington, MD

- ❖ Increased online sales for local businesses during Covid-19 by helping to set up and manage e-commerce websites.
- ❖ Demonstrated ability to work remotely while effectively meeting client demands and providing personalized services.
- ❖ Consulted with clients to add custom features to their websites including Zoom class purchasing and new user registration.

### Snowdrop Architecture – Intern

January 2020 - Present

College Park, MD

- ❖ Contributing to the software design of a home systems panel for a modular home with focus on efficient energy usage.

## 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

### 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

## ADDITIONAL EXPERIENCE

### YHack Hackathon Participant

Yale University, New Haven, CT

October 2019