

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**

