

EDUCATION

Kingston, ON	Queen's University	Sept 2020 – June 2024
<ul style="list-style-type: none">▪ Major: Computer Engineering, BAsC (Overall GPA: 3.47)▪ Relevant Coursework: Data structures and Algorithms, Object Oriented Programming (Java), Computer Architecture, Discrete Mathematics, Mechatronics		

RELEVANT EXPERIENCE

Production Engineer, Fellow	Major League Hacking	Jun 2022 – Aug 2022
<ul style="list-style-type: none">▪ Completed 12 weeks of structured curriculum-based learning covering core Production Engineering topics, supplemented with events / workshops hosted by industry experts.▪ Worked on an internal hackathon-winning Flask application as a team using GitHub best practices.▪ Developed a CI/CD pipeline using unit / integration tests, automated re-deployment scripts, and GitHub Actions.▪ Set up system and container monitoring, alerting, and visualization using Prometheus and Grafana.		
Computer Science Tutor	Moh's Online Tutoring	Feb 2022 – Present
<ul style="list-style-type: none">▪ Teach High school-level students the fundamental concepts of the Java programming language.▪ Review official documentation to ensure lesson plans cater to varying Java Platform releases.		
Electrical Team Member	Queen's Racing (QFSAE)	Oct 2021 – Present
<ul style="list-style-type: none">▪ Analyze PCB designs using digital logic fundamentals to develop torque vectoring tools.▪ Implement CAN bus communication through Arduino Uno controllers to test the interception of sensor data.		

PROJECTS

[Portfolio Website](#) (Flask, Jinja, MySQL, JavaScript, HTML/CSS, Bootstrap, Peewee, Bash, Docker)

- Implemented Bootstrap and CSS best practices for a mobile friendly, animated frontend.
- Utilized the Fetch API to retrieve data from a Flask API.
- Developed models using the Peewee ORM to add and receive data from a MySQL database.
- Containerized and orchestrated applications, databases, and NGINX reverse proxies using Docker.
- Implemented user authentication with password hashing and session management.

[CookHack](#) – QHACKS 2022 1st place, HotG Category (React.js, Flask, MongoDB, Firestore, HTML/CSS)

- Developed a Flask backend API and MongoDB collections to store and serve data to a React web app.
- Implemented the logic used to recommend recipes based on user inputs.

[MongoWheels](#) (Spring Boot, Thymeleaf, MongoDB, SQL, Bootstrap, HTML/CSS)

- Developed a MongoDB collection to store automotive data and serve it to a Spring Boot web API.
- Integrated the MVC design pattern by dividing elements based on their functionalities for a modular codebase.
- Worked on the Spring Security implementation to authenticate users and secure critical API endpoints.

SKILLS

Languages:	Proficient: Java, Python, C/C++	Familiar: JavaScript, Bash
Tools/Frameworks:	Proficient: Git/GitHub, Flask, HTML/CSS/Bootstrap	Familiar: Spring Boot, React.js, Docker
Databases:	Proficient: Firestore, MongoDB	Familiar: MySQL, Peewee ORM