GitHub
LinkedIn
Portfolio Website
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Samuel Emard-Thibault

EDUCATION

Kingston, ON   **Queen's University**   **Sept 2020 – May 2025 (Exp)**

- **Major:** Computer Engineering, BASc (Overall GPA: 3.47)
- **Relevant Coursework:** Data structures and Algorithms, Object Oriented Programming (Java), Software Quality Assurance, Operating Systems, Microprocessor Systems, Computer Networks, Machine Learning.

RELEVANT EXPERIENCE

Software Developer Intern   **Queen's Centre for Advanced Computing**   **May 2023 – July 2024**

- Developed internal web and mobile applications for external clients using various stacks that include Next, React, Django REST, Express, and Flutter.
- Set up robust staging and production environments which utilized Docker, GitHub Actions, AWS RDS, Load Balancing, Auto-Scaling, and Bucket Storage to optimize performance and significantly reduce cloud costs.
- Worked with multiple clients to understand and communicate development expectations as a team.
- On-boarded and trained a team of new hires to take over the development and maintenance of multiple web and mobile applications.

Production Engineer, Fellow   **Major League Hacking**   **Jun 2022 – Aug 2022**

- Completed 12 weeks of structured curriculum-based learning covering core Production / Site Reliability Engineering topics, supplemented with events / workshops hosted by industry experts.
- Worked on a hackathon-winning Flask application as a team using GitHub and the SCRUM methodology.
- Developed a CI/CD pipeline to automate testing and deployment using Docker, Bash, Pytest, and a CentOS VPS.
- Set up system and container monitoring using Prometheus and Grafana to maintain deployment servers.

Computer Science Tutor   **Moh's Online Tutoring / Private**   **Feb 2022 – Present**

- Organizing post-secondary-level lessons to introduce the fundamental concepts of Java, JavaScript, Bash, C++, and version control tools.

PROJECTS

Leaf Hack – **QHACKS 2024, 1st place overall** (Next.js, Django Rest Framework, AWS S3, Oracle Cloud, ResNet9)

- Developed a DRF REST API which uses a model trained on the ResNet9 architecture to detect plant diseases.
- Designed and built models to create and store user data and their related uploads and logs through AWS S3.
- Built CD pipeline to Oracle Cloud to allow a smooth development experience with frontend developers.

Minute Tutor – **#HackTo 2022, 1st place overall** (React.js, Flask, MySQL, Peewee)

- Developed a Flask backend to algorithmically serve database records to a React web app.
- Worked on parsing JSON responses on the frontend to display tutor information on a user-friendly interface.
- Implemented user authentication using MySQL to allow tutors to easily update their personal information.

SKILLS

Languages: **Proficient:** *Java, Python, JS/TS*   **Familiar:** *Bash, C/C++, Dart*

Tools/Frameworks: **Proficient:** *Git, DRF, React/Next, Docker, AWS EB*   **Familiar:** *Spring, Node, Flutter*

Databases: **Proficient:** *Firestore, MongoDB, PostgreSQL/MySQL, Various Python/JS ORMs, AWS RDS*