Portfolio Website

Samuel Emard-Thibault



EDUCATION

Kingston, ON Queen's University Sept 2020 – May 2025

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

RELEVANT EXPERIENCE

Software Developer Intern

Queen's Centre for Advanced Computing

May 2023 - July 2024

- Developed and improved both new and legacy internal web and mobile applications for external clients using Next.js, React, Django REST, Express, and Flutter.
- Optimized cloud infrastructure resulting in a 30% reduction in hosting costs by migrating services to AWS Elastic
 Beanstalk and configuring containers, RDS, Load Balancing, Auto-Scaling, and Bucket Storage.
- Led onboarding and training sessions for a 6-member team, ensuring seamless project continuity and effective knowledge transfer.

Production Engineer, Fellow

Major League Hacking

Jun 2022 - Aug 2022

- Engineered CI/CD pipelines that automated testing and deployment processes to CentOS servers, reducing review process workloads and deployment times by over 50% using GitHub Actions, Docker, Bash, and Pytest.
- Implemented system monitoring solutions with Prometheus and Grafana, achieving 99.9% uptime for critical deployment servers and real-time notifications for important service updates.

Computer Science Tutor

Moh's Online Tutoring / Private

Feb 2022 - Present

Designed and conducted bilingual post-secondary lessons, improving comprehension of Java, JavaScript, Bash,
 C++, and version control tools.

PROJECTS

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

- Developed a Django REST API in under 36 hours that serves a model trained on the ResNet9 architecture which detects plant diseases with 95% accuracy.
- Led frontend integration of token authentication and efficient API data retrieval using Next.js (TypeScript) and Axios.
- Configured backend CD pipeline and S3 bucket, enabling streamlined development in a shared staging environment with cloud storage to minimize configuration times.

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

 Engineered a Flask and React application within 24 hours, enabling quick access to tutor information for students.

SKILLS

Languages:Proficient: Java, Python, JS/TSFamiliar: Bash, C/C++, DartTools/Frameworks:Proficient: Git, DRF, React/Next, Docker, AWS EBFamiliar: Spring, Node, FlutterDatabases:Proficient: Firestore, MongoDB, PostgreSQL/MySQL, Various Python/JS ORMs, AWS RDS