Luca Galati

luca.galati@queensu.ca • lucagalati.tech • linkedin.com/luca-galati2002 • github.com/lucagalati02

EDUCATION

Queen's University | Kingston, ON — Expected Graduation May 2025

B.S. - Computer Science (Honours), Specialization in Software Design — *Dean's Scholar: Above 3.5 GPA*

Coursework: Data Structures, Algorithms, Databases, Discrete Mathematics, Linear Algebra, Differential Equations, Web Development, Probability and Statistics, Project Management, Operating Systems, Software Architecture, Quality Assurance, UI/UX Design, System Level Programming, Logic for Computing

SKILLS & TECHNICAL TOOLS

Languages/Frameworks: Java, Python, C, HTML, CSS, JavaScript, Bash, SQL, LaTeX, ReactJS, NodeJS, Flask, Selenium

Technologies/Concepts: Git, Regex, Jupyter Notebook, Docker, MS Azure, MATLAB, REST API, Unit Testing, SCRUM, Power BI

EXPERIENCE

Full Stack Developer & Data Analyst | Mitsubishi Aerospace — *May 2023 - Aug 2024*

- Collaborated with various teams in code reviews and design sessions to ensure high quality code on a daily basis.
- Wrote documentation for new and existing tools to simplify the maintenance and onboarding process for new interns.
- Assumed full ownership of a full-stack dashboard application built on ReactJS, ExpressJS and SQL, marketed to airlines who want to gain vital insights regarding their fleet. Ownership responsibilities included the maintenance of the existing codebase as well as introducing new features to meet evolving business demands.
- Transformed a non functional web application, originally built over the course of a year, into a fully operational Power BI application within a single month, resulting in a 90% reduction in resource costs.
- Collaborated with various teams to enhance database schema design and streamline SQL pipelines, significantly boosting their web application development processes and increasing productivity by 20%.

Junior Software Engineer | First Mile Technologies — *May 2022 - Apr 2023*

- Spearheaded simultaneous development of multiple software projects, including web applications, backend systems and hardware products, resulting in the acceleration of the company timeline by 30%.
- Developed cross-platform network socket apps in Python that scaled to meet demands with up to 1K requests/sec.
- Designed and engineered an SQL-based database system & Python-Flask web app to monitor debtor activities, achieving accuracy with the data collected by 98% and reducing operational costs by 12%.

Mentor | Queen's COMPSA — *Aug 2020 – Apr 2021*

- Worked with other mentors to facilitate 60+ team-building activities for 200+ first-year Computer Science students.
- Gave support & resources to many students, increasing their confidence in remote learning by 10%.

PROJECTS

Portable Wifi Router | *Raspbian, Linux, Engineering Design*

- Engineered a proprietary high speed mobile router using a modular Linux system by reprogramming raspbian source files to configure network traffic and utilize multiple wireless connections to host a single bonded connection.

Foodbank Finder (Google Hackathon Winner) | *HTML, CSS, Flask, Google Maps API*

- Led a team of four to create a web app to promote sustainability and social good. Designed and developed a fully functional food bank finder within a tight 24-hour deadline that helps those in need connect with nearby food banks.

QBNB | *HTML, CSS, Python, Flask, SQL, Docker, Quality Assurance, SCRUM, Unit Testing*

- Designed and implemented a scalable Airbnb clone, engineered for growth and expansion, completed within a 4-month timeframe. Collaborated within a SCRUM team to maintain 100% application integrity.

Local Search Engine | *Python, AVL Trees, Max Heaps, Priority Queues*

- Developed a robust local search engine in Python, leveraging AVL Trees, Max Heaps, and Priority Queues for efficient file search and relevance ranking. The program displays search results in a browser-like structure, with the top result showcasing the highest relevance.