Luca Galati

Toronto, ON | 905-512-9251 | 19lrg2@queensu.ca | GitHub | LinkedIn | lucagalati.tech

Experience

Junior Software Engineer | 05/2022 - Present
First Mile Technologies
- 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 concurrent, cross-platform network socket applications in Python that scaled efficiently to meet company demands with up to 1K requests/sec.
- Honed skills in designing & configuring modular Linux-based devices to support high-speed bonded wireless connections for remote applications, boosting connectivity speeds by 3 times.
- Engineered a reliable SQL-based database system to monitor debtor activities, achieving accuracy with the data collected by 98% and reducing operational costs by 12%.
- Designed interactive UI/UX interfaces for a new company sector, enabling seamless access to the company's database for new users, translating to an estimated 15% improvement in user experience.

Lead Developer | 21/01/2023 - 22/01/2023
QWIC Hackher x Google Hackathon | Winner
- Led a team of four in creating a web application that addresses sustainability and social good. Our goal was to help individuals in need easily locate the nearest food bank that best meets their needs.
- Utilized HTML and CSS for the front-end development and Python Flask for the back-end, incorporating Google APIs to enhance functionality.
- Was able to design, develop & present a fully functional web app despite the tight 24-hour deadline.

Lead Developer | 05/03/2022 - 06/03/2022
Next Generation of Medical Simulation Hackathon
- Proved the technical feasibility of a project through the successful creation of a VR phlebotomy platform to reduce training costs as well as provide accessible lab-based healthcare training.
- Learned the basics of Unity and led a team of four in the design, development, and presentation of the software under tight deadline constraints of 24 hours.

Mentor | 08/2020 - 04/2021
Queen's COMPSA
- Built and maintained relationships with other mentors to facilitate 60+ team-building activities for 400+ first-year students, improving trusting bond among peers
- Provided support resources for many students, increasing their confidence in remote learning by 10%.

Projects

Portable Wifi Router
- Created a proprietary high speed mobile router using a modular Linux system.
- Reprogrammed raspbian source files to configure network traffic and designed a system that can utilize multiple wireless connections to host a single bonded connection that can be used anywhere.

QBNB
- Developed a functional clone of 'Airbnb', capable of hosting over 10,000 users.
- Utilized the SCRUM model as part of a team, gaining experience with SQL databases, Docker, HTML, CSS, and software quality & assurance practices to ensure 100% application integrity.

Local Search Engine
- Programmed a powerful search engine in Python, using AVL Trees, Max Heaps, and Priority Queues to efficiently search local files on a computer & determine the most relevant files based on a query.
- Program presents search results in a browser-like structure, with top result being the most relevant.

Education

Queen's University | Kingston ON

BS in Computer Science, Honours | 2020 - 2024 (Expected)

Dean's Scholar: Achieved a GPA of over 3.5 for both fall and winter semesters.

St. Michael's C.S.S. | Bolton ON

OSSD + high distinction (over 90% average) | 2016 - 2020

Graduated with an average of 95% overall. Received the Computer Science Award for achieving the highest grade in the class with an overall average of 100%.

Skills

Technical Skills

- Programming Languages: Java, Python, Bash, C, HTML, CSS
- Technologies & Frameworks: SQL-Alchemy, Flask, Git, Github, Selenium, Docker, Bootstrap
- Integrated Development Environments: VSCode, JetBrains Suite, Unity, MATLAB
- Operating Systems: MacOS, Windows, Linux, OpenWrt, Raspbian
- Concepts: REST API, Operating Systems, Algorithm Design, Computer Architecture, Databases, SCRUM, Networking, Data Structures, Object Oriented Design, Agile Development, Unit Testing, Multithreaded Programming, UI/UX Design