Luca Galati

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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.
- Engineered a reliable 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%.

Lead Developer | 01/2023 - 01/2023
QWIC Hackher x Google Hackathon | Winner
- Led a team of four in creating a web app to help people locate food banks that best meet their needs.
- Utilized HTML & CSS for the front end; Python Flask & Google APIs for an efficient back end.

Lead Developer | 03/2022 - 03/2022
Next Generation of Medical Simulation Hackathon
- Proved the technical feasibility of a project through the creation of a VR phlebotomy platform in Unity to reduce training costs by 15% as well as provide accessible lab-based healthcare training.

Mentor | 08/2020 - 04/2021
Queen's COMPSA
- Worked with other mentors to facilitate 60+ team-building activities for 400+ first-year students.
- Gave support & resources to many students, increasing their confidence in remote learning by 10%.

Projects

Portable Wifi Router
- Engineered a high speed mobile router by reprogramming raspbian source files to configure network traffic & designing a system that can utilize multiple wireless connections to host a single bonded connection that is 3 times faster than a single wireless connection.

QBNB
- Utilized the SCRUM model as part of a team to develop a clone of 'Airbnb' without errors, gaining experience with SQL databases, Docker, HTML, CSS, and software quality & assurance practices.

Local Search Engine
- Developed a search engine using Python that can efficiently find the most relevant files on your computer based on a query. The implementation utilizes AVL Trees, Max Heaps, and Priority Queues.

Education

Queen's University | Kingston ON
    BS in Computer Science, Honours | 2020 - 2025 (Expected)
    Dean's Scholar: Achieved a GPA of over 3.5 for both fall and winter semesters.

Skills

Technical Skills
- Programming Languages: Java, Python, Bash, C, HTML, CSS
- Technologies & Frameworks: SQL-Alchemy, Flask, Git, Github, Selenium, Docker, Bootstrap
- Operating Systems: MacOS, Windows, Linux, OpenWrt, Raspbian
- Integrated Development Environments: VSCode, JetBrains Suite, Unity, MATLAB
- 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