SEBASTIAN DELUCA

Halton Hills, ON | +1 647-688-2306 | delucaseb02@gmail.com | linkedin.com/in/sebastian-deluca | sebdeluca.com

Education

Queen's University — *B.S. Computer Science, SODE* — September 2020 - April 2025
Coursework: Software Architecture, Algorithms, Operating Systems, Human-Computer Interaction, Software Quality Assurance, Programming Paradigms, Data Structures, Object-Oriented Programming, Logic for Computing Science

Technical Skills

Programming Languages: Python, JavaScript, C#, SQL
Technologies: React.js, Node.js, Git, Django, Flask, Cypress, Selenium, Azure DevOps
Database Management Systems: MySQL, SQLite, MongoDB, Oracle
Certifications: Web Programming w/ Python & Javascript (HarvardX), Developing Cloud Applications with Node.js & React (IBM)

Work Experience

Mitsubishi Heavy Industries — *Fullstack Developer & Analyst* — May 2023 - September 2024
Technologies Used: *Python, JavaScript, React, Redux, Azure DevOps, Git, Cypress*
- Created a comprehensive **analytics platform** with ReactJS, Redux and Flask, significantly reducing operational and maintenance costs for clients through improved data visualization and analysis tools, generating approximately $5k in the first month post-launch.
- Developed and integrated an **automated pipeline that executes unit tests** upon creation of Pull Requests, guaranteeing code quality and reducing the occurrence of unexpected bugs, since preventing over 10 feature-breaking pull requests from being merged.
- **Mentored incoming interns** resulting in a ~30% reduction in onboarding time.
- Streamlined team operations by **implementing standardized development practices**.
- Spearheaded the **end-to-end development of a web dashboard** generating approximately $8K per airline annually and achieving $25K in revenue within the first month of deployment.
- Built and implemented an **automated reporting solution**, automating the generation of complex monthly reports saving ~3-4 working hours per month.

SentryHealth Inc. — *Quality Assurance Technician (Contract)* — July 2022 - August 2022
Technologies Used: *Python, JavaScript, Postman, Docker, Cypress*
- Collaborated within a **Scrum-based development team** to optimize project efficiency and consistently deliver high-quality outcomes, reducing backlogged tickets by ~10% during tenure.

Projects

QBNB - Full Stack Web Application — **JavaScript, Python, Flask, SQLAlchemy**
- Led development as **scrum leader** of the team, employing **white/black box testing and SQL Injection**.

Appetment - Full Stack Web Application — **JavaScript, Python, Django, SQLite**
- Independent personal project focused on **streamlining the management of pet veterinary care.**
- Included a bilateral appointment management system.

SilverScreen - Full Stack Web Application — **JavaScript, Python, Flask, MongoDB**
- Designed to **manage TV show watchlists, track viewing progress, and identify streaming platforms**.