

Jonathon Swart

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Experience

Ericsson

Ottawa, ON

Automation Scripting Co-op

Sept 2023 - Aug 2024

- **Enhanced an Automated Reporting System:** Leveraged **Power BI, Power Automate, OpenPyXL, Pandas**, and **Azure** to build and enhance reporting features.
- Utilized **Postman, Python**, and **Sharepoint** to test and resolve backend issues in the reporting system, improving system performance and accuracy.
- Collaborated closely with end-users to define and implement new functionalities.
- Participated in bi-daily **SCRUM** meetings to align on development goals.
- Enhanced test cases to improve the response time of the system by **85%**.
- **Developed a Web Application:** Engineered a web app using **FastAPI, JavaScript** and **websockets** for seamless interaction with a **Dockerized PostgreSQL database**.
- Integrated a secure, **cookie-based system** for user information storage and retrieval, ensuring a streamlined and protected user experience.

Cognition+

London, ON

Software Developer

May 2022 – August 2022

- Developed and enhanced rules that provide clients with accurate insurance policies and premiums with **98% accuracy**.
- Engineered programs with the company's proprietary language to interface with a variety of file types for backend automated systems to access and utilize for computation.
- Quantified and verified a high level of quality by employing a **test driven development cycle**.

Projects

QWIC Hackher x Google Hackathon | Winner

- Developed a web application in **24 hours** using **Python Flask, SQLAlchemy** and **Google APIs**, that allows users to find the best/closest food banks in their area within seconds.
- Spearheaded the team of four developers to design and develop a seamless and user-friendly web application.

QBNB

- Developed a functional 'Airbnb' replica using **Python Flask, SQL**, and **Docker**, following **Agile** methodology to ensure a high quality and error-free performance.
- Created **Selenium** test cases to ensure error-free performance and applied software quality assurance best practices.

Technical Skills

Programming Languages: Python, Java, C, Bash, JavaScript, HTML/CSS, MySQL, TypeScript, Docker, PHP
Frameworks/Tools: React, Power BI, Git, Github, Power Automate, Jira, Confluence, Postman, Linux, Azure, Sharepoint, Maven (familiar), Spring (familiar)

Concepts: SCRUM, Object Oriented Design, Agile Development, Unit Testing, Multithreaded Programming

Education

Queen's University

2020 – 2025

BS in Computer Science, Honours

Kingston, ON

- Cumulative GPA: 3.63/4.3
- Dean's Scholar: Achieved a GPA of over 3.5 for both fall and winter semesters.
- Relevant Coursework: System Level Programming, Computer Architecture, Data Structures, Operating Systems, Algorithms, UI/UX, Software Quality Assurance, Software Architecture, Databases