Omar Elserwi

Computer Science and Business Student available from September 2024 – December 2024

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Technical Skills

Development: Python, C, C++, C#, Java, TypeScript, React, Bash, Node.js, MySQL, Selenium, PHP, Bootstrap, CSS, HTML

Developer Tools: Git, Eclipse, Postman, AWS, NETLIFY, GitLab, various REST API experience, Grafana, Graylog

Experience

Full Stack Developer   January 2024 – April 2024

Software Developer   January 2023 – April 2023

CondoWorks, Toronto, Canada

- Developed, maintained, and monitored over 100 web scrapers and parsers vital for daily system operations, leveraging **Node.js** and **Puppeteer** as the primary technologies.
- Maintained and expanded upon a **PHP** application, resolving 200+ tickets through the implementation of new features and resolution of bugs, all while upholding best practices in server security.
- Effectively managed and optimized a **MySQL** database to streamline data storage, retrieval, and manipulation processes. The resulting improvement optimized both web scraping operations and application functionality.
- Implemented extensive logging, resulting in a 74% reduction in issue resolution time, improving system reliability.
- Spearheaded the project to eliminate our use of docparser by standardizing and identifying recurring patterns for 150+ invoice formats.

VR Programmer   October 2022 – Present

Kinesiology & Physical Education Lab, Waterloo, Canada

- Engineered immersive VR paradigms using **Unity** and **C#**, enabling precise control and realism in simulations.
- Performed data analytics on VR simulation data using **Pandas**.

IT Support Specialist   January 2022 – April 2022

Kidcentral Supply, Toronto, Canada

- Developed a web scraping bot using **Selenium** and **Python** to monitor and analyze prices listed by retail partners for our products, proactively identifying and notifying any pricing inconsistencies.
- Designed and implemented an intranet site, serving as a central communication platform and a comprehensive repository for essential training resources, promoting streamlined information access and team collaboration.
- Automated various daily operational tasks and processes by creating **Python scripts**, reducing manual workload, and increasing overall operational efficiency by over 36%.

Projects

- Created a rogue-like game using **C++**, which offered multiple floor layouts, mob types and spawns. This was done while implementing strong **OOP** techniques, **MVC** pattern, **RAII**, encapsulation and class inheritance.
- Created a program using **Java** that creates a timetable for every student in a high school, given every students' desired/preferred courses, keeping into account the resources available.

Education

Bachelor of Computer Science (BCS, co-op)   Expected Completion **April 2025**

University of Waterloo

Bachelor of Business Administration (BBA, co-op)   Expected Completion **April 2025**

Wilfrid Laurier University