Cherith Boya

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Education

University of Guelph
Guelph, Ontario

B.Eng Honours Computer Engineering
Expected Graduation: April 2028

- **CPGA:** 3.0
- **Key Courses:** Data Structures, Digital Systems Design, Operating Systems, Analysis and Design of, Computer Algorithms, Large-Scale Software Architecture , Microcomputer Interfacing, Signal Processing, Electronic Devices, Electric Circuits, Advanced Computer Architecture, Communication Systems, Discrete Structures in Computing, Embedded Reconfigurable Computing Systems

Work Experience

Math and Reading Instructor Assistant
Mississauga, Ontario

Kumon - Mississauga, ON
Sept 2021 - February 2023

- Assessed performance data to identify gaps and provided tailored improvement strategies, developing skills in analysis and solution-building.
- Simplified complex concepts into clear explanations, mirroring the communication required in client-facing consulting work.
- Coordinated front-desk operations and interacted with parents, building organizational and interpersonal skills.

Projects

Miniature Wheelchair Systems Design
Guelph, Ontario

C++, Arduino Integration
Sept 2024 – December 2024

- Led a team in delivering a fully functional wheelchair system, managing project scope, task delegation, and trade-offs to exceed requirements with a 105% evaluation.
- Applied structured problem-solving by evaluating alternative designs, balancing technical feasibility with user-focused outcomes.

Lucky Queen Online Casino
Brampton, Ontario

Java, Python
June 2024

- Designed and implemented a user-friendly interface by analyzing usability needs and aligning technical features with client-focused objectives.
- Collaborated with the team to systematically test and debug core features, identifying root causes and implementing solutions that enhanced system reliability.
- Contributed to the project's 95% grade by delivering results under tight deadlines, simulating a consulting-style environment with real stakeholders in mind.

University Management System
Guelph, Ontario

Java, JavaFX, SQL
April 2025

- Built a backend with Excel integration to automate data management, enabling efficient reporting and real-time synchronization across student and admin modules.
- Developed structured processes for registration, tuition tracking, and academic records, aligning requirements across multiple user groups.
- Evaluated and reconciled stakeholder needs by implementing role-based access controls, ensuring both functionality and security, which supported a 100% project score.

Technological Skills

Languages: Python, C++, C, Java, HTML, CSS, JavaScript, MS SQL, Typescript, React, MATLAB, VHDL

Tools and Technologies: Visual Studio Code, Eclipse, MS Azure, IntellJ, Linux, Git, Github, Excel, JIRA

Libraries and Packages: NumPy, Pandas, Flask, Django, json, pytest, JavaFX, Swing, GLib