

Hala Alzureiqi

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Summary of Qualifications

- **Languages:** Python, C, C++, MATLAB, HTML/CSS, JavaScript
- **Tools and Technologies:** Node.js, Express, React, Git/GitHub, REST APIs, Gemini API, ElevenLabs, Cloudinary, FFmpeg, KiCad, SolidWorks, ESP32 microcontrollers
- **Soft Skills:** Leadership, initiative, adaptability under pressure, interpersonal skills, conflict resolution

Education

University of Waterloo

Bachelor of Applied Science - Biomedical Engineering, Honours, Co-operative Program

Waterloo, Ontario

Expected May 2030

Experience

Tech Lead

UW Muslim Student Association

Jan. 2026 – Present

Waterloo, ON

- Building a new orphan sponsorship web page and backend services to replace a legacy system
- Developing internal APIs and chatbot tools to enable fast access to club information for club members

Electrical Sub-team Member

UW Biomedical Engineering Society

Oct. 2025 – Present

Waterloo, ON

- Collaborated with mechanical and software sub-teams to design an assistive knee brace
- Created PCB schematics and layouts in KiCad to support reliable EMG signal acquisition
- Independently developed Arduino-based ESP32-S3 software to enable BLE data transmission to the software team

Software Sub-team Member

UW Biomechatronics Design Team

Sep. 2025 – Present

Waterloo, ON

- Collaborated on a lower-limb exoskeleton system, focusing on system integration and control logic
- Worked with ESP32 microcontrollers to test motors, LEDs, and hardware–software interactions
- Supported early-stage sensor data interpretation and collaborated across electrical and mechanical sub-teams

Guest Services Associate

Fleetway Bowling Alley - ESAM Group

Sep. 2023 – Aug. 2025

London, ON

- Delivered high-quality customer service by managing reservations, POS transactions, and guest inquiries
- Resolved customer concerns calmly and effectively, maintaining a safe and positive atmosphere for guests
- Performed opening and closing duties including cleaning and inspecting workplace to ensure smooth operations

Projects

BookTok | *Node.js, Express, React, Gemini API, ElevenLabs, FFmpeg, Cloudinary*

Jan. 2026

- Created a full-stack AI media pipeline that transforms book summaries into short-form videos through automated text analysis and displays videos on a scrollable feed
- Implemented an independent Node.js/Express backend, including: AI image generation, text-to-speech narration, video composition, and cloud media storage via REST APIs

To-Do List | *Python, Flask, HTML/CSS, JavaScript*

Dec. 2025

- Developed a full-stack task management application using Flask, implementing REST-style routes to support task creation, updating, and deleting through backend Python logic
- Built a front-end with HTML, CSS, and JavaScript for user interactions and reflect real-time task state changes