Farzad Rahman

519-573-7464 | f46rahma@uwaterloo.ca | LinkedIn | Github | Portfolio

Education

University of Waterloo — Waterloo, ON
Bachelor of Applied Science, Computer Engineering — *Expected Apr. 2027*

Technical Skills

Programming Languages: C/C++, JavaScript, Python, Java, Swift, VHDL, ARM Assembly, MATLAB
Web & Mobile: React, Node.js, React Native, REST APIs, GraphQL
Backend & Databases: PostgreSQL, Supabase, Microservices Architecture
Cloud & DevOps: AWS (Lambda, S3, DynamoDB), Docker, Kubernetes, Jenkins, CI/CD, Git, Vercel
Testing & QA: Cypress.io, Selenium, Unit Testing, Integration Testing, Performance Testing

Experience

Blair Health — Jan. 2025 - Apr. 2025
Fullstack Developer

- Built and launched a full-stack MVP in under **30 days**, enabling rapid validation with **25+** early users; implemented onboarding, menopause and medical profile assessments, and a personalized treatment plan system
- Co-defined and deployed the entire architecture (Supabase, React, Node.js, Vercel) supporting seamless user experience, secure data storage, and scalable backend APIs across **3 core health modules**
- Collaborated directly with one of the top 3 OBGYNs in the country to develop a ML-assisted treatment recommendation engine, improving plan personalization accuracy by **40%** in early clinical feedback

Clearpath Robotics — May. 2024 - Aug. 2024
Software Test Engineer Intern

- Enhanced system performance and reliability for OTTO-MOTORS Robot Fleet-Manager and OTTO-APP sim-robot software
- Improved test reliability by reducing flakiness in cypress automation code, preventing false failures by **66%**, ensuring accurate identification of product issues
- Created multidimensional canvas testing system for Fleet-Manager by designing and programming a system using mathematical transformations to accurately map robot pathfinding routes between the canvas and the automation tool

BlackBerry — Sep. 2022 - Apr. 2023
Software Development Engineer in Test

- Validated the Cylance Multi-Tenant Console platform by identifying and resolving critical bugs through manual and automated testing, ensuring high-quality releases and minimizing production defects
- Expanded test coverage by **30%** through developing and debugging test cases using xUnit for backend services and Cypress.IO for frontend components, extending tests to validate integrations between the Multi-Tenant Console (MTC) and Unified Endpoint System (UES)
- Designed and implemented a Jenkins-based automation framework in Groovy with customizable PowerShell commands, decreasing release testing time by **40%** and enabling dynamic test runs across environment configurations (region, stage, test suite choice)

Mollymawk Software — Jan. 2022 - Apr. 2022
Fullstack Developer

- Developed full pages/features of Glider-club management system, Take-Up Slack, and engineered serverless stack driven platform
- Created API calls to function with front-end and database calls communicating with AWS services such as Lambda, S3, DynamoDB
- Engineered platforms from ground up such as Audit Log system, User Account and Authentication, to function effectively for accessibility and user ease

Projects

Multi-threaded Image Concatenation | *C, Multithreading, CURL, Data Structures* — Oct. 2024

- Built a multithreaded program to retrieve and concatenate **50** image segments from a server using CURL, ensuring efficient concurrency and resource utilization
- Implemented dynamic buffer management and CRC validation to ensure data integrity and adherence to PNG file format standards
- Reconstructed the final PNG by combining updated IDAT chunks, achieving **100%** accuracy and compatibility with standard image viewers