

# Farzad Rahman

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## EDUCATION

### University of Waterloo

Computer Engineering, Bachelor of Applied Science

Graduation Date – Apr. 2027

## TECHNICAL SKILLS

**Frameworks:** MatLab, COMSOL, STM32, FPGAs, xUnit, Cypress.io, Kubernetes, Jenkins, Selenium, Postman, React

**Languages:** Python, Java, C++, VHDL, ARM Assembly .NET, Swift Javascript/Typescript, Processing

**Skills:** Data-Structures/Algorithms, Object Oriented Programming, Game Development, Script Programming, Full-Stack, QA Automation, Git

## EXPERIENCE

### Clearpath Robotics

May. 2024 – Aug. 2024

Software Test Engineer Intern

- Ensured reliability in **functionality and performance of OTTO-MOTORS Robot Fleet-Manager and OTTO-APP sim-robot software**
- Improved test reliability by reducing flakiness in cypress automation code, decreasing false failures from **86% to 20%**, **ensuring accurate identification** of product issues.
- Created complex canvas testing system for Fleet-Manager by designing and coding a system using mathematical transformations to **accurately map robot pathfinding routes** between the canvas and the automation tool.

### BlackBerry (Cylance Cybersecurity)

Sep 2023 — Dec 2023

Software Development Intern

- Developed **frontend UI and backend API** features, while fixing existing bugs for the **Cylance Multi-Tenant-Console cybersecurity platform**
- Centralized **LaunchDarkly feature flag code** across **several backend repositories**, enhancing code organization and fostering streamlined development practices
- Migrated feature-specific partial views from MTC to OneConsole in the frontend repository for enhanced user experiences

### BlackBerry (Cylance Cybersecurity)

Sep 2022 — Apr 2023

Software Development Engineer in Test

- Maintained quality performance and functionality in Cylance cybersecurity platforms
- Created custom **Jenkins system** for frontend automation by writing **Jenkinsfile in Groovy utilizing powershell scripts** to manipulate Cypress tests (custom server choice/region choice etc.)
- Wrote automated scripts for testing features with **xUnit framework (.NET)** for backend, and **Cypress.IO (JS)** for frontend

### 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**
- Developed serverless backend and frontend features such as **Audit Log system, User Account and Authentication**

## PROJECTS

### TopSpeedTracker | Python, Assetto Corsa

Aug. 2023

- Created telemetry app for tracking top speed in simracing software
- Wrote script for tracking user maximum speed reached (as well as current speed) in a session
- Added on buttons for toggling between metric and imperial units
- Developed into efficient simple UI window for in-simulation use