

# SAYMA HAQUE

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## PROFESSIONAL SUMMARY

Software Engineering graduate with experience in QA testing, data analysis, and full-stack development. Proficient in Object-Oriented Programming, Python, and Jira within Agile teams. Led ML-driven data visualization and ML for diagnostics in a biomedical capstone project. Skilled in debugging, performance evaluation, and translating complex data into insights. Fast learner and collaborative problem-solver focused on building reliable, user-centered solutions.

## EDUCATION

### UNIVERSITY OF CALGARY

Bachelor of Science - Major in Software Engineering; Minor in Biomedical Engineering | GPA: 3.6/4.0

Calgary, AB  
Sept 2019 - June 2025

## SKILLS

**Front End:** HTML/CSS, React, Tailwind CSS, TypeScript, Javascript  
**Back End:** Spark, Node.js, Django, PHP, SQL, REST API

**Programming:** Spark, Java, C/C++, Python  
**Testing/Tools:** Squish, Jira, Git, Docker

## WORK EXPERIENCE

### CIRCLE CARDIOVASCULAR IMAGING

Software QA Analyst Intern

Calgary, AB  
May 2023 - August 2024

- Conducted manual and automated testing of 2 products for cardiovascular and neurovascular image analysis software
- Performed functional and regression testing using Squish for QT with JavaScript and Python across both desktop applications, web applications, and dockerized applications, contributing to high-quality product releases
- Wrote test scripts from scratch and debugged existing scripts for Windows, Mac, and Linux, contributing to CI/CD with DevOps to automate nightly test runs and update results in Jira while collaborating with cross-functional teams in daily stand-ups, sprint retrospectives, and refining test plans to drive continuous improvement in testing processes

### IMPACT TOOLBOX

Student Intern

Remote  
Sep 2022 - Nov 2022 & Jan 2023 - March 2023

- Collaborated with the content team to design visually engaging presentation slides for introductory business courses, covering topics such as marketing, entrepreneurship, and strategic planning.
- Translated complex business concepts into clear, accessible visuals and learning materials to support online education for aspiring changemakers and early-stage entrepreneurs.

## PROJECTS

### HEARTLENS 3.0 | CAPSTONE PROJECT | CIRCLE CARDIOVASCULAR IMAGING

Sept 2024 - May 2025

- Developed machine learning models (Python) for diagnosing cardiovascular diseases based on MRI biomarkers to automate patient classification (healthy/pathological) and generated diagnostic reports with justification and visualizations
- Enabled real-time training of customized ML models using different datasets and feature importance for tailored patient classification
- Refactored and enhanced the existing GUI (HTML, CSS, React, TypeScript) to support new machine learning features and visualizations, ensuring seamless integration with diagnostic tools and a smoother user experience

### FITCHECK | WEB DEVELOPMENT PROJECT

Sept 2024 - Dec 2024

- Built a full-stack web app (HTML, CSS, React, JavaScript, PHP) where users create profiles, showcase outfits, rate styles, and explore fashion content from peers and businesses.
- Developed dynamic UI features in React and managed backend logic with PHP and frontend with React/JavaScript, integrating outfit ratings, profile customization, and ad space for brands.
- Containerized the application using Docker and designed responsive, mobile-friendly layouts for a seamless cross-device experience while syncing backend (SQL).

## ACTIVITIES

### LIGHT UP THE WORLD | NGO

Co-President + VP Finance | UCalgary Chapter

Calgary, AB & Pucacasa, Peru  
June 2022 - May 2025

- Managed club bank account and tracked all outgoing and incoming funds
- Traveled to Peru in 2023 for 2 weeks to plan, build, and set up an electrical grid using solar panels at a small school in a remote community to set up the electrical-box, solar panels, wiring, and a small computer lab in the classroom with a team of 10 other students