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   Calgary, AB
Bachelor of Science - Major in Software Engineering; Minor in Biomedical Engineering | GPA: 3.6/4.0   Sept 2019 - June 2025

SKILLS

Web: HTML, CSS, React, PHP, TypeScript   **ML/Data:** Pandas, Spark, Scikit-learn, SQL
Programming: Python, Java, C/C++, JavaScript, Shell   **Testing/Tools:** Squish, Jira, Git, Agile, DevOps, Docker, REST API

WORK EXPERIENCE

CIRCLE CARDIOVASCULAR IMAGING   Calgary, AB
Software QA Analyst Intern   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   Remote
Student Intern   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   Calgary, AB & Pucaccasa, Peru
Co-President + VP Finance | UCalgary Chapter   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