SAYMA HAQUE

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PROFESSIONAL SUMMARY

Software Engineering graduate with hands-on experience in QA testing, data analysis, and full-stack development. Proficient in Python, OOP, and Jira within Agile environments. Strong at troubleshooting technical issues, supporting users across software and hardware systems, and communicating effectively with cross-functional teams. Quick learner and collaborative problem-solver dedicated to delivering reliable, user-focused 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
Notable Courses: Computer Networks and Security, Operating Systems, Scalable Data Analytics

SKILLS

Front End: HTML/CSS, React,Tailwind CSS, TypeScript, Javascript   **Programming:** Spark, Java, C/C++, Python
Back End: Spark, Node.js, Django, PHP, SQL, REST API   **Testing/Tools:** Squish, Jira, Git, Docker, Vite

WORK EXPERIENCE

CIRCLE CARDIOVASCULAR IMAGING Calgary, AB
Software QA Analyst Intern May 2023 - August 2024
- Performed manual and automated testing on both cardiovascular and neurovascular image analysis software, handling tens of thousands of MRI/CT image files and developing Python scripts to streamline data sorting, aggregation, and validation.
- Conducted functional and regression testing using Squish for QT with JavaScript and Python across desktop, web, and Dockerized applications, ensuring high-quality product releases.
- Authored and debugged test scripts for Windows, Mac, and Linux environments, supporting CI/CD pipelines through automated nightly runs, Jira integration, and collaboration with cross-functional Agile teams to refine test plans and improve process efficiency.

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

PERSONAL WEBSITE | WEB DEVELOPMENT PROJECT July 2025
- Designed and developed a responsive website (React, TypeScript, TailwindCSS, and GitHub Pages) showcasing software projects, skills, and design work.
- Built a custom UI/UX with modern frontend practices, including reusable components, animations, and mobile-friendly layouts.
- Implemented version control with Git/GitHub and automated deployment pipelines for seamless updates.
- Website can be found here: https://saymahub.github.io/

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