Muhammad Fahad Sohail

GitHub | LinkedIn | Portfolio | fahadsohail1501@gmail.com | 437 986 1501

SUMMARY

4th-year Software Engineering student at York University specializing in Big Data Stream with over 2 years of experience in software development. Skilled in Git, GitHub, API integration, and automation frameworks, with a strong foundation in Data Structures, Java OOP, software engineering requirements, and software design.

EDUCATION

Sep 2021 – Apr 2026   **York University, Lassonde School of Engineering**

Spec. Hons. Bachelor of Engineering, Software Engineering (Big Data Stream)

Related Coursework: OOP, Software Design, Database, ML, Data Mining, Embedded Systems.

WORK EXPERIENCE

Software Automation Developer – Ministry of Children, I&IT Cluster, ON   Jan 2024 – Apr 2025
- Developed automated test scripts using Selenium with **Java** and a **Python** framework, improving QA efficiency and reducing manual testing time by **40%**, ensuring robust software quality.
- Integrated automated tests into **CI/CD** pipelines with **Azure DevOps**, boosting deployment efficiency.
- Automated workflows with **Selenium**, **Auto-It**, **Python**, and **VBScript**, improving test coverage by **35%** and collaborating closely with QA and developers during sprints to enhance the reliability of internal systems.

Software Developer Intern – Support Black Charities   Oct 2023 – Jan 2024
- Enhanced fundraising campaigns by **25%** through front-end improvements, project organization, and content promotion using HTML, CSS, and JavaScript.
- Applied software engineering skills to real-world non-profit operations, improving workflow efficiency by **20%.**

Computing Student Hub – York University, ON   Apr 2022 – Aug 2024
- Led a 16-member team in organizing events and workshops on topics such as Machine Learning, React.js, **LeetCode**, Discord-Bots, **Figma**, and **Git**.
- Collaborated with industry professionals to enrich the club's offerings and engage a diverse membership.

Coding Mentorship – York University, ON   Jan 2023 – Apr 2023
- Contributed to a collaborative learning environment by volunteering to instruct fellow students in coding.
- Facilitated interactive coding sessions and discussions, offering practical expertise and assisting with debugging.

PROJECTS

Warehouse Management System: Source Code
- Developed a **client–serve**r warehouse management system automating order processing, inventory tracking, restocking alerts, and discount pricing strategies, reducing manual workflow time by **30%**.
- Applied software design principles and **MVC** architecture with Java **HTTP** Server, boosting order accuracy by **25%.**

The Odin Project: Source Code
- Proficient in full-stack development, including HTML, CSS, JavaScript, Ruby, Ruby on Rails, Node.js, and databases, with skills in front-end design, responsive interfaces, and server-side development.
- Experienced with **Git**, **Bootstrap**, jQuery, and **PostgreSQL** for version control and responsive design.

Braille Vision: ML-Based Text-to-Audio Translator: Source Code
- Designed and implemented a Braille recognition system that detects Grade 1 Braille from images, converts into audio.
- Built using **Python**, **TensorFlow**, **Keras**, **OpenCV** and **Convolutional Neural Network** for multi-class classification.

Skills

Programming: Java, C, C++, Python, HTML, CSS, JavaScript, Bash, MATLAB, R, SQL, Verilog, VBScript.
Technical/Programmatic Skills: Data Structures and Algorithms, Machine Learning and Pattern Recognition, Software Design, Digital Logic Design, Database System, Selenium WebDriver, Test Automation, CI/CD Integration, Regression Testing, User Acceptance Testing (UAT), Usability Testing.
Development Tools: Visual Studio Code, Linux/Unix, JUnit, Git, GitHub, Azure DevOps, AutoIt.