

Shaf Muhammad

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Work Experience

Software Engineer (Permanent FTE)	Intact Financial Corp. - Toronto, ON	May 2025 - Present
- Collaborated in a cross-functional Agile team to enhance an underwriter platform supporting billions in insured assets. - Designed and deployed loosely coupled RESTful APIs within a distributed Service-Oriented Architecture (SOA), utilizing Java Spring and Angular to improve system modularity and deployment speed. - Leveraged GitHub, Docker, and OpenShift for version control, containerization, and deployment in cloud-native environments. - Accelerated incident resolution across production and dev environments by integrating AI engineering agents (Devin, CoPilot) to automate root cause analysis, debugging, and unit test generation. - Analyzed systems and user feedback to implement improvements, enhance reliability, and elevate user experience for brokers.		
Software Engineer (Intern)	Ontario Government - Toronto, ON	May 2024 - Apr 2025 (12 months)
- Developed secure, Java-based applications used across ministries, adhering to government standards and compliance. - Built dynamic, accessible UI components with Angular and TypeScript, ensuring compliance with WCAG 2.1 standards. - Engineered backend RESTful APIs using Spring Boot and established CI/CD pipelines via Azure DevOps to automate deployment. - Optimized SQL queries and designed schemas, strictly adhering to government security and governance guidelines. - Collaborated in an Agile team and performed full-stack testing with Postman, Selenium, and JUnit to ensure reliability.		

Featured Projects

(click project description to view)

Tap To Dine

- Built a comprehensive **restaurant management OS** that digitizes the dine-in experience, empowering venues to manage QR-based ordering and kitchen workflows through a unified, high-concurrency dashboard system.
- Engineered a low-latency **Socket.IO** and **FastAPI** backend that enables instant, bi-directional order updates between multiple client devices, ensuring **high availability** through automated **Render** and **Netlify** deployments.
- Built a clean and responsive **Angular** UI using lazy loading and MUX adaptive bitrate streaming to **maximize LCP/CLS**.
- Integrated **Supabase** for data scaling, **Firebase** for auth, and **Chart.js** to visualize real-time revenue trends and peak service hours.

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- Designed and developed a **full-stack investment app** for beginner-to-intermediate investors, enabling users track portfolios by registered account type (TFSA, RRSP, FHSA), get **AI-driven** buy/sell/hold insights, and forecast long-term growth.
- Frontend built in **Angular**, coupled with **Firebase** for handling auth and real-time updates, and **CI/CD** implemented via **Vercel**.
- Backend services utilize **Node.js** and **Python microservices** for sentiment analysis and stock price prediction engines.
- Integrated **market data APIs** and delivered interactive visualizations and a learning hub on ETFs, stocks, and registered accounts.
- Pre-launch waitlist generated **200+ signups**, showcasing strong traction and user excitement ahead of release.

Education

York University - Toronto, ON	BSc. Computer Science	Sept. 2022 - Aug. 2026
Microsoft Certified Azure Cloud Practitioner (AZ-900)		(click to view credential)
Databricks Fundamentals Certification		(click to view credential)

Technical Skills

Frontend Development:

JavaScript, TypeScript, Angular, React, Flutter, Dart, Node.js, HTML, SCSS, GSAP, Tailwind, Bootstrap, Thymeleaf, Angular Material

Backend Development:

Python, Java, SQL, SpringBoot, Maven, Databricks, FastAPI, PostgreSQL, SQLite, Supabase, MongoDB, Kotlin, C, Verilog HDL, RISC-V

Tools & Technologies:

Azure, AWS, GCP, Docker, OpenShift, Vercel, Firebase, Figma, Git, Unix/Bash, Pandas, Selenium, Postman, Jira, WAVE, JAWS, NVDA