

AMMAR HUSSEIN

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EXPERIENCE

FDM Group

Software Engineer

Toronto, ON

April 2024 – Present

- Architected and implemented enterprise framework using jQuery and VBA that bridged modern and legacy banking systems, reducing transaction processing time by 200% across 3 major banking workflows
- Developed pilot implementation that automated multi-step approval processes, cutting manual processing time from 40 hours to 2.5 hours weekly and achieving 99.99% accuracy rate
- Created reusable component library that reduced frontend development time by 45% and was adopted by 8 teams across 3 departments, standardizing UI for 200+ components
- Developed banking frontend website using Java Spring and Angular, achieving 98% unit test coverage and reducing customer support tickets by 60% in first quarter
- Designed microservices architecture using MEAN stack that handled 250,000+ daily transactions with 99.95% uptime, improving system response time by 65%
- Led integration with legacy mainframe systems, resulting in 80% reduction in manual data entry and saving estimated \$400K annually in operational costs

Islamic Forum of Canada

Data Science Intern

Brampton, ON

April 2022 – April 2024

- Developed R-based Shiny applications that automated 25+ weekly reports, reducing generation time from 4 hours to 15 minutes per report with 99.8% accuracy
- Designed data processing pipeline handling 5M+ daily records, improving data accuracy from 85% to 99.5% while reducing processing time by 75%
- Established Quarto documentation system that decreased new developer onboarding time from 15 days to 3 days, adopted by 4 other departments
- Mentored team of 5 junior developers with 100% retention rate, leading to 40% increase in team productivity within 6 months
- Implemented testing suite that caught 98% of bugs pre-deployment, reducing production issues by 85% and saving 120+ developer hours monthly
- Engineered a scalable and maintainable codebase for Shiny applications, adhering to industry best practices to ensure robust software solutions.

PROJECTS

WebApp – Phone Detox

Developed a productivity-focused web app designed to help users voluntarily block access to their smartphones for set durations. Utilizing Google Cloud Platform for User Authentication (Firebase Auth), Data Management (Cloud Firestore), and Cloud Functions for scalable infrastructure and React Native for a responsive front end.

Pokemon Meta Analyzer

Engineered a data-driven ranking system using R Shiny and PostgreSQL to analyze over 900 Pokémon species based on their base stat total. Optimized database queries for real-time tier adjustments with sub-200ms response times, reducing classification time by 85%.

EDUCATION

The University of Western Ontario

Honours Bachelor of Science in Computer Science and Biochemistry

London, ON

2023

RELEVANT COURSEWORK: Information Systems, Software Engineering, Bioinformatics

SKILLS

Languages: Python, JavaScript, C++, SQL, Java, C, Go, PHP, HTML/CSS, PostgreSQL, TypeScript, R

Technologies: AWS Lambda, AWS EC2, AWS S3, React, RabbitMQ, Docker, Kubernetes, CGP, NodeJS, NextJS, Redux, JUnit5, Jest, Jenkins, Github Actions, MongoDB, TailWindCSS, React Native, .NET framework, Java Spring Boot, , Firebase, Supabase, AWS Amplify