Mohamad Rifai

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Summary

Detail-oriented software developer with a Bachelor in Computer Science, Hands-on experience in object-oriented development (Java, Python), relational databases (MySQL), and software testing including unit, integration, and performance testing. Proven ability to design and validate scalable, efficient software solutions within time and budget constraints.

Skills

Languages: Python, Java, Kotlin, Racket, JavaScript, TypeScript

Frameworks/Libraries: React, Node, Spring Boot, JavaFX

Tools: Git, Linux, Google Cloud, Azure, Firebase, Jira

Databases: MySQL, Firebase Firestore (NoSQL), SQL Server

Testing: Unit testing, Integration testing, Performance testing, Jest

Architecture: OOP, REST APIs, Event-driven, Microservices, Kubernetes **AI/ML:** RAG, LLM APIs, AI-assisted development, Prompt engineering

Experience

Volunteer Full-Stack Developer — Malden Islamic Center   *Feb 2025 – Present*

- Aligned with DevOps principles by deploying code through Git, managing version control, and writing clean, reusable components.
- Created a Node.js backend initially, then refactored it into a PHP backend to meet hosting requirements — preserving route structure and functionality.
- Applied Agile principles through iterative development and continuous deployment.
- Deployed the site to a live production environment and provided documentation for future maintenance.
- Developed single-page application (SPA) functionality with React (TypeScript), routing, and dynamic content loading.

Software Developer I (Contract) — Automated LLC   *June 2024 – March 2025*

- Collaborated cross-functionally with engineers to integrate data pipelines into SCADA workflows using Ignition and RESTful interfaces.
- Developed internal dashboards and data visualization tools to support diagnostics, system insights, and remote monitoring of industrial automation environments.
- Collaborated to tailor API endpoints and data pipelines for seamless integration with SCADA workflows.
- Practiced OOP and testing strategies to ensure robust performance in production environments.

IT Technician — MJZ Consulting   *Jan 2022 – May 2023*

- Installed and maintained hardware/software at Boston Medical Center
- Collaborated with team members to troubleshoot and patch systems in compliance with security standards.
- Collaborated with end users to troubleshoot and patch systems, reducing downtime and improving user satisfaction.

Education

University of Massachusetts Boston   **Sep 2020 – May 2024**

Bachelor in Computer Science

Coursework: *Data Structures, Algorithms, Object-Oriented Programming, Software Engineering, Databases, Software Testing*

Projects

Malden Islamic Center Website   **Malden Islamic Center**

Technologies: React(TypeScript), Node.js(initial), PHP(final), MySQL, REST API

- Developed a modular full-stack web app replacing a WordPress site.
- Architected reusable React components, state-managed dynamic content (announcements, events).
- Designed and migrated backend from Node.js to PHP, preserving RESTful routes and middleware logic.
- Built a normalized MySQL schema with secure CRUD operations and role-based access for admins.
- Handled deployment, server config, and wrote detailed maintenance documentation.
- Ensured accessibility, scalability, and responsive design across devices.

AI Quote Finder   **github.com/MohamadRifai001/quoteFinder**

Technologies: Python, Google Gemini API, Tkinter, ChromaDB, RAG

- Designed and built a Tkinter-based Python GUI tool that uses RAG and ChromaDB to retrieve context-relevant quotes from essays via PDF input.
- Integrated Google Gemini API for LLM-based semantic search; enabled students to accelerate essay research workflows.