

Mohammad Qudah

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qudahm.github.io/My-Developer-Portfolio

EDUCATION

York University
Honors Bachelor of Science in Computer Science

Sep. 2020 – May 2025

EXPERIENCE

Sun Life Financial
Software Engineer Intern

Aug. 2023 – Dec. 2023

- Developed a scalable microservice pipeline to process **10,000+** data files daily, leveraging **Apache Kafka** to enhance data streaming and **JSON** processing, reducing data streaming latency by **15%** and optimizing system throughput.
- Implemented Kafka Stream processing functions and generated unit tests for Java microservices, increasing test coverage, reducing production errors by **8%**, and enhancing system reliability for thousands of employees.
- Optimized data storage and retrieval by refining **MongoDB** schema design and indexing, reducing query execution times and improving accessibility for over **100,000+** Kafka messages across **100+** topics.

On Site Support Technician

May 2023 – Aug. 2023

- Managed and coordinated the deployment of Windows 10 laptops and desktops, adhering to strict project timelines and data migration, resulting in a **15%** increase in deployment efficiency compared to the previous quarter.
- Communicated with **100+** employees across various software roles, troubleshooting technical issues, boosting software configurations, and ensuring seamless workflow integration, accelerating user satisfaction by **20%**.

eWorx Technology
Software Developer

Jan. 2023 – May 2023

- Led the complete refactor for the server-side infrastructure, redesigning API architecture to **FastAPI**, reducing query latency by **70%**, cutting response time by **50%** and optimizing data flow for scalable performance.
- Engineered a secure database system incorporating **SQL** injection prevention and streamlined data generation algorithms, improving processing speed by **67%** while enhancing user experience and system reliability.
- Refactored the web application's components structure in **React**, eliminating redundant code and improving extensibility by **60%**, enabling easier maintainability and scalability for future developments.

Arab Information Management Services
Software Developer Intern

May 2022 – Dec. 2022

- Enhanced user interface functionality by integrating an external pop-up feature utilizing **React** to enable seamless official document rotations, leading to a **12%** increase in user engagement and **20%** less paper usage.
- Resolved over **100+** bugs in a web-based Human Resource Management System, enhancing system performance and increasing JUnit test coverage by **18%**, reducing bug recurrence and improving overall performance.
- Refined client-side and server-side components for efficient data storage, updates, and display of employee information, increasing user satisfaction by **15%** through streamlined access and enhanced responsiveness.

PROJECTS

Multi-Functional Discord Bot | *Python, MongoDB, AWS, Discord API*

- Programmed a Discord bot using **Python** and **MongoDB**, automating server moderation and user engagement for over **2,000** users across various servers, streamlining community management and real-time support.
- Incorporated personalized daily commands allow users to automate role changes, channel modifications, and scheduled announcements based on their preferred time, enhancing server organization and user experience.

Mission: Accomplished | *JavaScript, Node.js, React, MongoDB, Docker*

- Launched a full-stack task management solution leveraging **React**, **Node.js** and **MongoDB**; integrated real-time synchronization features that eliminated task updated discrepancies, enhancing overall user experience by **30%**.
- Implemented **RESTful API** endpoints to handle task operations for over **100** tasks, ensuring smooth client-server communication while delivering a responsive interface for efficient task tracking and management.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C#, SQL.

Developer Tools: AWS, Docker, Git, Postman, Google Cloud Platform, Jira.

Frameworks: Express.js, FastAPI, Flask, Apache Kafka, MongoDB, Node.js, React, SoapUI.