Mohammad Qudah

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EDUCATION

York University   Sep. 2020 – May 2025
Honors Bachelor of Science in Computer Science

EXPERIENCE

Sun Life Financial   Aug. 2023 – Dec. 2023
Software Engineer Intern

- Worked on building a microservice pipeline, processing over **10,000** files daily using **Apache Kafka**, reducing data streaming latency by **15%** and improving system throughput via optimized JSON parsing and parallel processing.
- Developed Kafka Streams applications in **Java** to transform and route real-time data, increasing unit test coverage by **25%**, cutting production errors by **8%** and enhancing reliability for internal tools used by **10,000+** employees.
- Contributed to **Agile** sprints for **MongoDB** performance optimization by redesigning schemas and implementing compound indexes, reducing query latency by **40%** and enabling efficient storage and retrieval of **100k+** messages.

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   Jan. 2023 – May 2023
Software Developer

- Led a full server-side refactor, migrating the API from **Django** to **FastAPI**, replacing synchronous requests with FastAPI's async processing for concurrent execution, cutting query latency by **62%** and response time by **45%**.
- Optimized query execution time by **67%**, developing a **MongoDB** database with compound indexes and aggregation pipelines. Refactored **CRUD** operations using query projection and batching techniques, for seamless integration.
- Collaborated with a team to refactor **React** components, enhancing modularity by splitting complex components into smaller reusable units. Integrated these improvements into the **CI/CD** pipeline, ensuring reliable deployments.

AIMS   May 2022 – Dec. 2022
Software Developer Intern

- 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, Mongo, Express.js, Node.js, React, Docker, RESTful API*

- Launched a full-stack task management solution leveraging **Mongo, Express.js, Node.js** and **React**; integrated real-time synchronization features that eliminated task updated discrepancies, enhancing overall user experience.
- 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.