

# Mohammad Qudah

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## EDUCATION

**York University**  
*B.SC. Computer Science*

Toronto, Ontario  
*Sep. 2020 – May 2025*

## EXPERIENCE

### Sun Life Financial

May. 2023 – Dec. 2023

*Software Engineer Intern*

*Toronto, Canada*

- 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.

### eWorx Technology

Jan. 2023 – May 2023

*Software Developer*

*Remote*

- 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 **34%** 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 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*

*Kuwait City, Kuwait*

- 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

### GrantBridge | REACT, TYPESCRIPT, NODE.JS, EXPRESS.JS, PERPLEXITY API, AWS

- Developed a full-stack AI-powered grant discovery platform using React, TypeScript, Node.js, and Express.js
- Integrated Perplexity Sonar API to simplify eligibility rules and generate application prompts
- Launched to production with personalized matching; used by **50+** users that have discovered scholarship opportunities.

### Room Designer AI | REACT, VITE, TYPESCRIPT, NEXT.JS, OPENAI API, AWS

- Developed an AI-powered room layout tool using Next.js, React, and OpenAI API for dynamic design generation.
- Engineered an interface with real-time request tracking and 3D preview using TypeScript and Vite.
- Developed a blueprint-style interface enabling users to drag and drop furniture and customize room dimensions.
- Deployed the platform to production; over **90** users generated custom layouts, showcasing practical utility.

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, Go, HTML/CSS

**Frameworks:** React, Node.JS, Express.JS, Next.JS, Django, FastAPI

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

**Databases:** MongoDB, SQL