

Mohammed Riaz

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PROFILE

Full-stack engineer specializing in scalable web architecture, secure multi-tenant systems, and event-driven cloud infrastructure using **React**, **Next.js**, **NestJS**, and **Amazon AWS**. Strong foundation in real-time graphics (WebGL/GLSL) and AI system research, with proven experience building production-grade platforms for enterprise clients.

SKILLS

Programming: React.js, Tailwind CSS, JavaScript, HTML, CSS, Express.js, NestJS, Node.js, SQL, Java, Python, Jest, Redux, Convex

Tools: Visual Studio, Visual Studio Code, Github, Amazon Web Services (AWS), Figma, Docker, Redis, Ngrok

Soft Skills: Problem Solving, Management, Teamwork, Communication, Creativity, Adaptability

EXPERIENCE

Strawberry Labs

Dubai, United Arab Emirates

Full Stack Engineer

June 2025 - Feb 2026

- Built a **greenfield, production-grade**, full-stack, scalable Supplier and Purchase Order management Portal for a major UAE conglomerate, actively used by **1000+ users** across multiple Business Units and Suppliers with **React** and **NestJS**.
 - Lead the architecture, design and database design** for the **authentication and notification system**.
 - Improved system security and access control by designing and implementing **role-based authentication (RBAC)** and **JWT based magic-link** with **Passport.js** and **session management**.
 - Increased reliability of email delivery** by implementing a fault-tolerant system using **AWS SES + SQS** with **Dead Letter Queues (DLQ)**.
 - Streamlined **infrastructure setup and deployment** by creating reusable **CloudFormation scripts on AWS**.
- Collaborated on **Django-based e-commerce web application** for **Choithrams** that has **100K+ monthly active users**, contributing to backend APIs and admin panel customization.

University of Wollongong in Dubai

Dubai, United Arab Emirates

Research Assistant

Nov 2023 - Jan 2024

- Refactored an existing WebGL project, improving performance using best coding practices and a WebGL library.

PROJECTS

Quizlr – AI-Powered Real-Time Multiplayer Quiz Platform

Solo Project – Full Stack Developer

[quizlr.mohdriaz.com](#)

- Built a live quiz platform with **AI-generated questions** via OpenRouter and real-time multiplayer gameplay using **Next.js**, **Convex** reactive subscriptions, and **Tailwind CSS v4**; players join via a 6-character code with no account required.
- Implemented **Convex Auth** (email/GitHub/Google OAuth) and structured **AI question generation** with Zod validation and a shareable solo-practice mode via generated links.

StashChat – Privacy-First AI Chat

Solo Project – Full Stack Developer

[stashchat.mohdriaz.com](#)

- Architected a **browser-local AI chat app** where all conversation history is stored in **IndexedDB** (never on a server), built with **Next.js**, **OpenRouter**, and **Vercel AI SDK** for streaming responses, giving access to hundreds of AI models.
- Engineered a **server-side API key encryption** model using **iron-session** (AES-256-GCM) sealed in HttpOnly cookies, ensuring the raw API key never reaches the client.

DokuPad – Real-Time Collaborative Document Editor

Solo Project – Full Stack Developer

[dokupad.mohdriaz.com](#)

- Built a **Google Docs-style collaborative editor** using **Yjs (CRDT)** and **Y-socket.io WebSockets**, enabling conflict-free concurrent edits across multiple users with **Tiptap** as the rich text editor.
- Implemented **Clerk authentication** with **organization-scoped collaboration access control**, ensuring only members of the same org can collaborate on shared documents.

EDUCATION

University of Wollongong in Dubai

Dubai, United Arab Emirates

Bachelor of Computer Science

Graduation Date, May 2025

- GPA: 3.92/4.00**