

MD. Mizanur Rahman

Full-Stack Software Engineer

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Summary

- **Full-Stack & Backend Software Engineer:** 4+ years of experience architecting high-throughput microservices, multi-tenant backend APIs, and responsive web applications using Node.js (NestJS/Express), React, Next.js, Modern UI (MUI/AntD), and TypeScript.
- **Database & Performance Optimization:** Deep production expertise in **SQL (MySQL/PostgreSQL) and NoSQL (MongoDB)** schema design, MongoDB Aggregation Pipelines, Redis caching, event-driven queue architectures (AWS SQS), and high-concurrency request optimization.
- **Cloud Infrastructure, DevOps & AI Integration:** Skilled in containerizing services with Docker, configuring Nginx web servers, building automated CI/CD pipelines, deploying on AWS (EC2, S3), and leveraging Agentic AI tools (Claude Code, OpenAI APIs) to accelerate development workflows.
- **Polyglot & Adaptive Mindset:** Enterprise production experience spanning Java (Spring Boot), modern identity security ecosystem governance (One Identity Manager, ForgeRock), and cross-platform API integrations, with a proven ability to master new tech stacks on demand.

Experience

K53 Technology Solution

June 2024 - July 2026

Full-Stack Software Engineer, IAM Team

Client: Allianz Australia

Engineered high-concurrency authentication systems, custom database sync automation, and cross-platform identity governance within the global Allianz enterprise ecosystem.

- **Auth Latency & Singleflight Pattern:** Fixed a major authentication bottleneck (P99 latency dropped from 4,500ms to <15ms) during IdP SAML/OIDC key rotations by implementing Promise Collapsing (Singleflight Pattern) in Node.js; collapsed 5,000+ parallel JWKS network calls into 1 in-flight fetch, eliminating socket pool exhaustion.
- **Database Automation & Ticket Elimination:** Resolved chronic identity synchronization failures between One Identity Manager and ForgeRock by writing custom automated SQL validation and sync scripts across unsAccountBInUnsGroupB tables; eliminated a 10+ daily ticket backlog down to zero and automated 84+ non-prod manual checks per ticket.
- **API Reliability & Client Support:** Engineered authorization state mapping across enterprise registries (Person/Group tables), providing direct client-facing technical support and resolving complex SSO, MFA, and OIDC access anomalies.

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June 2023 - June 2024

Technical Team Lead / Full Stack Developer

Led a 4-engineer team architecting fault-tolerant microservices, rate-limited queue processing, and Agentic AI integrations for multi-tenant enterprise platforms.

- **Fault-Tolerant Microservices & SQS Queues:** Prevented e-commerce order drop-offs caused by 3rd-party DHL Express API downtime by building an asynchronous AWS SQS event-driven queue with Dead Letter Queues (DLQ); guaranteed an instant 200 OK checkout response for users with zero customer data loss.
- **Rate-Limiting & Traffic Control:** Eliminated SMTP server bans and Node.js socket pool freezes under 10,000+ concurrent email spikes by designing a batch-queued processing pipeline using Redis and rate-limited queues (capped at 30 emails/30 mins).
- **Full-Stack Architecture & Product Delivery:** Led a 4-engineer agile team collaborating closely with Product Managers to refine user stories, estimate sprint tasks, and build the multi-tenant RM Auto ecosystem using Node.js (NestJS), Next.js, Modern UI (MUI/AntD), and Docker; integrated Agentic AI tools and Stripe payment gateways.

Backend Developer

Architected scalable NestJS microservices, optimized database query execution, and implemented Redis caching for a high-traffic digital healthcare platform.

- **Database Query Tuning & Redis Caching:** Refactored core delivery and patient API endpoints by tuning complex MySQL queries and MongoDB Aggregation Pipelines paired with Redis caching; significantly reduced latency across high-volume database reads during peak traffic.
- **Distributed Microservices & Cloud Architecture:** Developed multi-tenant NestJS backend services on AWS (EC2, S3), implementing secure data isolation, RBAC access controls, and automated media asset upload pipelines.
- **System Automation & Cloud Operations:** Containerized NestJS microservices using Docker and built CI/CD deployment pipelines on AWS (EC2, S3) with automated background cron job schedulers, ensuring 99.9% uptime.

Key Proficiencies

- **Backend & APIs:** Node.js (NestJS, Express.js), REST APIs, Microservices, Multi-Tenant Architecture, Java (Spring Boot), Message Queues (AWS SQS, RabbitMQ)
- **Frontend & UI:** TypeScript, React.js, React Native, Next.js, Modern UI Libraries (MUI, AntD, Tailwind CSS), State Management (Context Api, Redux Toolkit, React Query, Zustand)
- **Databases & Caching:** MongoDB (Data Modeling & Aggregation Pipelines), PostgreSQL, MySQL, Redis (Caching & Rate Limiting)
- **DevOps, Infra & Security:** Docker, AWS (EC2, S3, SQS/DLQ), Nginx, CI/CD Pipelines, Ubuntu, Cloudflare Monitoring
- **AI & Workflow Automation:** Agentic AI Tools (Claude Code, Gemini CLI, OpenAI APIs), Prompt Engineering, Automated Refactoring
- **IAM & Governance:** One Identity Manager, ForgeRock, Identity Lifecycle Management, Access Control, RBAC, Active Directory, SSO, MFA, OAuth2, OIDC, SAML, JWT
- **Leadership & Operations:** Systems Architecture, Technical Team Leadership, Agile/Scrum, Product Manager Collaboration & Sprint Planning

Education

Stamford University Bangladesh

2018 - 2021

B.Sc. in Computer Science & Engineering

Undergraduate Thesis: *QUINN: A Case Study on Designing and Implementing a Blockchain-Based Cryptocurrency*

- Engineered, compiled, and deployed a custom ERC-20 token (**QUINN**) with a fixed total supply of 1,000,000 tokens on the Ethereum Testnet using Solidity and Hardhat.
- Designed and executed an Initial Coin Offering (ICO) crowdsale smart contract, implementing automated token distribution logic, state transition validations, and unit tests for secure transaction execution

Language

Fluent in both Bengali and English.