

AZRAF AL MONZIM

Platform Engineer — Backend Engineer (Go) — Cloud Specialist

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Professional Summary

Results-driven Backend Engineer with 3+ years of production Go experience, specializing in durable workflow orchestration and resilient distributed systems. Proven expertise in integrating complex external APIs, taming legacy systems, and implementing robust resilience patterns (circuit breakers, idempotent retries, dead-letter queues). Deeply experienced with complex PostgreSQL schemas, multi-tenant isolation, and cloud-native infrastructure (Docker, Kubernetes, AWS). Strong track record building secure fintech platforms and fault-tolerant enterprise backends handling 13.1K RPS.

Technical Skills

Backend & Integrations	Go (Golang), PostgreSQL, REST, gRPC, External API Integrations, WebSockets
Workflow & Resilience	Durable Orchestration, Circuit Breakers, Idempotent Retries, RabbitMQ, Kafka, Redis
Cloud & DevOps	AWS (Full Suite), Docker, Kubernetes, Terraform, CI/CD, S3, Nginx
Architecture	Microservices, Event-Driven Design, Multi-tenant Isolation, Serverless, OAuth 2.0, RBAC
Languages	Go, TypeScript, Python, SQL, Bash, JavaScript, Java
AI & Agentic Systems	LangGraph, MCP (Model Context Protocol), LangChain, GraphRAG, Vector RAG (Qdrant), n8n

Professional Experience

Institute for Advanced Research (IAR), UIU **Dec 2025 – Present**
Research Assistant — Dhaka, Bangladesh (On-site)

- **Architecting** a multi-agent HR orchestration system using **LangGraph** and **GraphRAG** to automate complex candidate screening pipelines and semantic talent matching.
- Conducting research on the integration of distributed systems and AI/ML for high-scale, cost-efficient cloud applications.
- Developing production-grade research prototypes to validate emerging technologies in Agentic AI and Cloud Computing.

Edusoft Consultants Ltd **Oct 2024 – Present**
Platform Engineer — Dhaka, Bangladesh (Hybrid)

- Engineered a high-scale course registration platform supporting **10K+ concurrent users** with Redis distributed caching, maintaining sub-100ms API response times supported upto **13.1K RPS**.
- Architected and deployed distributed backend systems using **Go and PostgreSQL** on AWS, achieving a 35% improvement in query performance through optimized indexing.
- Scaled real-time infrastructure via **WebSockets** to handle **8K+ simultaneous connections** for live availability updates.
- Established automated CI/CD pipelines with GitHub Actions and Docker, reducing deployment cycles by 80%.

SoftNursery **Aug 2023 – Jul 2024**
Software Engineer — Bangladesh (Remote)

- Developed and maintained 500+ RESTful API endpoints for multi-tenant SaaS products, reducing deployment time by 50%.
- Built secure authentication systems (JWT, OAuth 2.0, RBAC) in Go and Node.js, decreasing security incidents by 30%.
- Designed AWS serverless architectures (Lambda, S3, SQS) with Stripe integration, processing 1K+ monthly transactions.

Key Projects

Enterprise Section Selection Portal ucamcloud.uju.ac.bd

Tech: Go, AWS (Lambda, DynamoDB), Redis, PostgreSQL, WebSockets

- Delivered a high-scale university system supporting 13.1K RPS with 99.95% uptime and fault-tolerant design.

Spendo AI (Startup) – Team Leader & AI Architect spendo.monzim.com

- **Champion – IC6 UIHP 2025**; Leading development of an AI-powered financial intelligence platform leveraging **MCP (Model Context Protocol)** to allow autonomous agents to securely query multi-tenant data.
- Architecting custom spreadsheet engines and real-time insight modules using a modular, agent-first approach.

DumpStation – Open Source PostgreSQL Backup dumpstation.monzim.com

Tech: Go, React, Docker, AWS S3, Cloudflare R2

- Built a production-ready backup platform with multi-cloud support, cron scheduling, and Discord monitoring.

Civil Aviation Recruitment Portal apply.casckjobs.org

- Full-stack recruitment system delivered in 72 hours; processed 5K+ applications with automated ranking.

Education

United International University

Oct 2022 – Present

Bachelor of Science in Computer Science & Engineering — Dhaka, Bangladesh

Additional Information

Interests Distributed Systems, **Agentic AI Orchestration**, Cloud Architecture, Developer Experience (DX)

Languages Bengali (Native), English (Professional Working Proficiency)