

# JOBAYER AHMED

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## PROFESSIONAL SUMMARY

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Senior Backend Engineer with 6+ years of experience designing and delivering production-grade server-side systems using TypeScript, Node.js (NestJS), and PostgreSQL. Proven track record of building high-performance REST APIs, optimizing databases at scale, and architecting secure, maintainable backend systems. Strong security mindset with hands-on experience implementing RBAC, authentication flows and enterprise environments. Experienced operating on-premises Kubernetes infrastructure and managing CI/CD pipelines. Works effectively both independently and within collaborative Agile teams.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, SQL

**Backend:** Node.js, NestJS, Express.js, REST API Design, Webhook Integrations

**Databases:** PostgreSQL, Redis

**Security:** JWT, RBAC, Input Validation

**Architecture:** Scalable API Design, Background Jobs, Caching Strategies

**DevOps:** Kubernetes (RKE2, CKA), Docker, Harbor, Traefik, HAProxy, HashiCorp Vault, Grafana, ArgoCD

**Tools & Practices:** Git, Code Reviews, Technical Documentation

## EXPERIENCE

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### Full Stack Developer

Jul 2024 – Present

*Regional Integrated Multi-hazard Early Warning System (RIMES)*

*Dhaka, Bangladesh*

- Designed and maintained high-throughput Node.js (NestJS) backend services and REST APIs handling real-time data ingestion pipelines for 10,000+ users across 45+ countries.
- Engineered scalable PostgreSQL schemas and optimized complex analytical queries over 200M+ records through indexing — achieving sub-second response times under heavy concurrent load.
- Developed reusable, well-tested backend modules and service abstractions, improving codebase maintainability and reducing onboarding time for new engineers.
- Implemented role-based access control and API-level authorization guards ensuring secure, auditable data access across all endpoints.
- Provisioned and managed the on-premises Kubernetes cluster (RKE2), configuring Traefik ingress, Grafana-based monitoring, and HashiCorp Vault for secrets management — ensuring zero-downtime deployments for backend services.

### Software Engineer – Backend

Jul 2022 – Jun 2024

*Tekumo*

*Minneapolis, MN*

- Owned end-to-end backend development of core platform services using TypeScript, NestJS, and PostgreSQL for a real-time workforce management SaaS platform serving 20,000+ field technicians.
- Designed and built RESTful APIs for job assignment, activity tracking, and reporting workflows — with strict input validation, error handling, and API versioning.
- Improved API throughput query optimization, strategic indexing, and a Redis caching layer — significantly reducing database load and response latency.
- Implemented webhook-based integrations for real-time bidirectional data synchronization with third-party enterprise platforms, including reliable delivery with retry and failure alerting.
- Built authentication and authorization systems including JWT-based auth, RBAC with fine-grained permission scopes, and immutable audit logs across all sensitive user actions.
- Delivered CI/CD pipeline improvements integrating automated test suites and Dockerized build stages, shortening the release cycle and improving deployment reliability.

### Software Engineer

Mar 2020 – Jun 2022

*Intelletive Consulting*

*Minneapolis, MN*

- Developed backend features and REST APIs for enterprise SaaS platforms using Node.js, TypeScript, and PostgreSQL — with a consistent focus on security and data integrity.
- Designed and implemented authentication, session management, RBAC, and audit logging systems with strict tenant boundary enforcement.
- Architected backend services for M9Sweeper, an open-source Kubernetes security platform, including policy enforcement APIs, vulnerability scanning integrations, and admission webhook handlers.
- Collaborated with distributed US-based teams to deliver secure, well-scoped backend features across multiple client engagements on tight timelines.

## DEVOPS & INFRASTRUCTURE

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Maintained production-grade on-premises infrastructure to support backend service deployments:

- Provisioned and operated Kubernetes clusters using RKE2 with master node high availability via HAProxy and Traefik for ingress routing.
- Deployed and managed a self-hosted Harbor container registry with image vulnerability scanning (Trivy) and access controls — keeping container supply chain secure and auditable.
- Configured Grafana for distributed service monitoring, dashboards, and alerting; integrated HashiCorp Vault for dynamic secrets injection into backend workloads.
- Built and maintained Docker-based CI/CD pipelines for automated image builds, and zero-downtime rolling deployments to the Kubernetes cluster.

## EDUCATION

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**Daffodil International University**

*Bachelor of Science in Computer Science and Engineering*

Dhaka, Bangladesh

*2016 – 2020*

## CERTIFICATIONS & ACHIEVEMENTS

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**Certified Kubernetes Administrator (CKA)** – Cloud Native Computing Foundation