

MOHAMMAD ADNAN

Backend Developer | 3 years of experience

Node.js | TypeScript | NestJS | PostgreSQL | MongoDB | AWS

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Professional Summary

Backend Developer with 2.5+ years of professional experience designing and developing scalable backend systems, REST APIs, and database-driven applications using Node.js and TypeScript. Experienced in microservices architecture, authentication and authorization, database optimization, and cloud-based deployments using MongoDB, PostgreSQL, Docker, and AWS. Strong focus on building secure, scalable, and maintainable software solutions for production environments.

Skills

Programming Languages: JavaScript (3 years), TypeScript (2+ years)

Frameworks: Node.js, NestJS, Express.js, Hono.js

Databases and ORMs: MongoDB, PostgreSQL, Mongoose, Sequelize, Prisma, TypeORM

Cloud Technologies: AWS (EC2, S3, Lambda, Cloudwatch, API Gateway), Firebase, Github Actions, Vercel, Render

Tools & Technologies: Docker, Git, Bitbucket, Jira, Swagger, Postman

Backend Engineering: REST APIs, Microservices, System Design, Software Architecture, Authentication & Security: JWT, Firebase Authentication, RBAC, Backend Development

Testing & Quality: Jest, Unit Testing, API Testing

Development Practices: SDLC, Agile, Code Reviews, Debugging

Experience

Broadstairs IT Solutions - Software Developer

January 2024 - Present

- Developed scalable REST APIs using Node.js, Express.js, NestJS, and Hono.js for production applications
- Implemented secure authentication and authorization mechanisms using JWT and Firebase Authentication.
- Designed database schemas and ERDs to support scalable backend applications.
- Optimized MongoDB queries, improving API response time by up to 30%.
- Containerized backend services using Docker to improve deployment consistency and environment portability.
- Created API documentation and testing workflows, reducing integration effort for developers.
- Conducted code reviews and collaborated in Agile sprints to improve code quality and delivery.
- Implemented unit tests using Jest, reducing regression issues and improving application reliability.

Tech Stack: Node.js, TypeScript, NestJS, Hono.js, MongoDB, PostgreSQL, AWS, Docker

Broadstairs IT Solutions - Software Developer Intern

Jul 2023 - Dec 2023

- Applied core JavaScript concepts to develop backend functionalities and business features.
- Contributed to backend feature development and REST API implementation using Node.js and Express.js.
- Developed backend services and APIs using Node.js, Express.js, and MongoDB.
- Gained hands-on experience in API development, debugging, testing, and database operations.
- Earned a full-time Backend Developer position through strong performance and project contributions.

Key Projects

UmmahBook – Backend Developer

NodeJS, Typescript, HonoJS, PostgreSQL, Firebase Auth, AWS, Jest

- Developed backend APIs for member enrollment, announcements, and real-time prayer time management.
- Implemented JWT-based authentication and role-based access control.
- Designed scalable database models and backend workflows to support community engagement features.
- Used Hono.js with TypeScript for a modular, maintainable architecture.
- Integrated Firebase services for secure user management and authentication.
- Documented and tested APIs using Swagger and Postman Collections.

IntelliSlot – Backend Developer

TypeScript, NestJS, PostgreSQL, Prisma, Jwt Auth, Zod

- Engineered a real-time slot generation system based on availability, breaks, holidays, and existing bookings.
- Developed transaction-safe booking workflows to prevent double-booking and ensure data consistency.
- Built a modular NestJS architecture following clean separation of concerns and dependency injection principles.
- Designed and optimized relational database models in PostgreSQL using Prisma ORM.
- Implemented JWT-based authentication and role-based access control (RBAC).
- Developed analytics APIs for appointment trends, utilization metrics, and dashboard reporting.
- Created reusable validation and centralized exception-handling mechanisms across modules.
- Optimized database queries and indexing strategies to improve scheduling performance and scalability.

Aidventory – Software Developer

Node.js, TypeScript, Express.js, MongoDB, Firebase, Zod, Docker

- Architected a ledger-driven inventory management engine providing complete traceability of stock movements across distribution channels.
- Implemented atomic transaction workflows to ensure consistency during multi-step inventory and package operations.
- Designed scalable backend services for stock allocation, volunteer transfers, beneficiary distributions, and damage management.
- Developed reporting and analytics services providing real-time visibility into inventory movement and distribution operations.
- Implemented Firebase Authentication and role-based access control (RBAC) for secure access management.
- Implemented idempotency controls and validation layers to prevent duplicate operations and maintain data accuracy.
- Applied clean architecture principles to build maintainable, scalable, and enterprise-ready backend services.

MemonID – Node.js Developer

Node.js, TypeScript, NestJS, Jwt, MongoDB, AWS, Jest, Swagger

- Developed backend services for community member management, profile administration, and social engagement features.
- Designed flexible MongoDB schemas to support dynamic and evolving community data structures.
- Developed search and information retrieval modules for efficient community data access.
- Implemented scalable data models to support growing community and organizational requirements.
- Developed backend APIs supporting authentication, content management, and community engagement workflows.
- Optimized database queries and backend workflows to improve system performance and maintainability.

EduSphere – Backend Developer

NodeJS, JavaScript, ExpressJS, MongoDB, JWT, Zod, Postman, Render

- Developed backend modules for student management, course enrollment, attendance tracking, and reporting.
- Implemented Zod-based validation to ensure data integrity and API reliability.
- Optimized MongoDB queries to improve dashboard performance and response times.
- Designed scalable data models supporting student management, attendance tracking, and reporting workflows.

Education

B.Voc. (Software Development) – (2022 - 2025)

Arvind Gavali College of Engineering, Satara

Higher Secondary Certificate (HSC) – (2019 - 2020)

Rahmaniya Junior College, Achalpur

Certifications

- **Practical GitHub Copilot** – *LinkedIn Learning Community (Nov 2025)*
- **Unlocking The Power Of JavaScript** – *Scaler Topics (Aug 2025)*
- **Introduction to MongoDB** – *Simplilearn SkillUp (Sep 2025)*