Anesh Karki

BACKEND SOFTWARE ENGINEER

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Summary

Backend Software Engineer specializing in building secure, reliable Node.js and NestJS backend systems and APIs for production applications serving 35,000+ active users. Proven track record of rapid progression, earning a promotion from Trainee to Associate within five months by delivering stable infrastructure. Expertise in designing documented REST and GraphQL APIs, architecting high-performance MongoDB schemas, and leveraging a solid foundation in relational databases (PostgreSQL/SQL). Dedicated to system reliability, security, data integrity, and maintainability through strict input validation, automated CI/CD workflows (Docker, GitHub Actions), and zero-downtime data migrations for live environments. Maintains practical experience building LLM-powered RAG pipelines while prioritizing core system stability.

Skills

API Development & Integration:
API design, RESTful APIs, GraphQL, Swagger documentation, JWT authentication, third-party integrations

Programming:
TypeScript, JavaScript, Node.js, NestJS, Express.js, C, C++, C#

Databases:
MongoDB, SQL Server, MySQL, Supabase, PostgreSQL, Oracle, schema design, indexing, query optimization

Frontend
React, Next.js, HTML5, CSS3, Tailwind CSS

IDE & Tools
VS Code, Antigravity, Postman, MongoDB Compass, Swagger, Visual Studio, Graphql Playground, OpenCode, Codex

AI / LLM:
LangChain, AI Integration, RAG Pipelines, LLM Text Parsing

Architecture & Security:
Microservices, dependency injection, role-based access control (RBAC), Helmet.js (XSS protection), API rate limiting, secure coding, input validation, Scrum.

Others
Git, Docker, AWS (EC2, S3), Github Actions, Jest, unit and integration testing, Jira, BitBucket

Experience

EBPearls Pvt. Ltd. Sep 2025 – Present

Associate BackEnd Developer Jan 2026 – Present

- Maintain and design secure backend systems for a live application with 35,000+ active users, ensuring backward-compatible API changes and zero-downtime feature releases.
- Implemented robust security measures including JWT-based authentication, Helmet.js for Cross-Site Scripting (XSS) protection, API rate limiting to block automated attacks, strict input validation, and role-based access control for secure in-app subscription flows and user data protection.
- Used a GraphQL layer alongside existing REST APIs, streamlining client-server integration and optimizing data fetching efficiency.
- Quickly transitioned from Express.js to building scalable, enterprise-grade backends using NestJS, focusing on clean, modular, and maintainable code.
- Built out complex core features, including secure in-app subscription flows and an AI integration that automatically extracts actionable events from unstructured data.
- Earned a promotion from a five-month trainee to Associate Developer by consistently delivering reliable cloud integrations, fast database queries, and stable backend infrastructure.

Trainee Backend Developer Sep 2025 – Jan 2026

- Expanded backend framework expertise from Express.js to enterprise-grade NestJS architectures, focusing on modularity and maintainable API design.
- Contributed to core backend module design, API integration, and automated unit testing under senior guidance.
- Delivered reliable cloud integrations (AWS S3, EC2) and fast database queries, leading to a promotion to Associate within five months.

Index It Hub Pvt. Ltd. Jan 2025 – Apr 2025

Software Development Intern

- Developed a full-stack blog application using the MERN stack under supervised guidance, featuring secure user authentication, CRUD operations, and real-time database management.

Projects

Cloud Kitchen Platform

- Developed a scalable and real-time Cloud Kitchen solution with efficient order management, tracking, and a responsive UI.Integrated RESTful APIs, optimized database structures, and implemented the Haversine algorithm for nearest kitchen detection and load balancing. Ensured security with JWT authentication and authorization, protecting user data and access.

React, Node.js, Express.js, Mongodb, RESTful APIs

Garment Management System

- Developed a web-based Garment Management System for small to medium businesses to make inventory tracking and order processing easier. Worked on the backend, created RESTful APIs.

React, Node.js, Express.js, Mongodb, RESTful APIs

Education

Tribhuvan University Kathford International College

2020 – 2024

Bachelor of Science in Computer Science and Information Technology (BSc.CSIT)