

# ANKUSH TYAGI

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Senior Node.js & NestJS Engineer · AI Systems & LLM Integration · Cloud & DevOps · MCP & Custom AI Agents

## PROFESSIONAL SUMMARY

Full-Stack Software Engineer with **4+ years** specializing in **Node.js, NestJS, and TypeScript** for building high-performance, scalable backend systems. Expert in designing modular **RESTful & GraphQL APIs**, deploying cloud-native applications on **AWS**, and integrating LLMs including **OpenAI API** and **Claude (Anthropic)**. Hands-on experience building **MCP servers, custom AI agents, RAG pipelines**, and autonomous workflows. Strong command of microservices architecture, **PostgreSQL** optimization, and production-grade engineering at scale.

## TECHNICAL SKILLS

<b>Primary Languages</b>	JavaScript / TypeScript (Advanced), Node.js (Advanced), Python, Go (Basic), PHP
<b>Frameworks</b>	NestJS, Express.js, Fastify, React, Next.js, Django, Laravel
<b>AI &amp; LLM Tools</b>	OpenAI API, Claude (Anthropic), LangChain, MCP Servers, Custom AI Agents, RAG Pipelines, Prompt Engineering, Chatbot Development
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch
<b>DevOps &amp; Cloud</b>	AWS (EC2, S3, Lambda, RDS, CloudWatch, SQS, etc.), Docker, Git, Linux, Nginx, Apache
<b>Core Competencies</b>	REST API Design, Microservices, GraphQL, JWT / OAuth2 / RBAC, BullMQ / Bull, WebSockets, Performance Tuning, AI Integration
<b>Payment Gateways</b>	Stripe, Razorpay, Klarna, PayPal, Apple Pay

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer L2 | Squareboat Solutions Pvt. Ltd., Gurugram Apr 2023 – Present

- Architected and maintained scalable microservices using **NestJS & TypeScript**, serving 10,000+ concurrent users with sub-200ms response times
- Built AI-powered features with **OpenAI API** and **Claude (Anthropic)**; developed **MCP servers** and **custom autonomous AI agents** for internal automation, reducing manual effort by 60%
- Designed **RAG pipelines** using Elasticsearch for document-based intelligent chatbots and structured **LLM** workflows
- Engineered secure REST APIs with **JWT, OAuth2, RBAC**; deployed NestJS apps on **AWS (EC2, S3, RDS, Lambda, etc.)** with Docker containerization
- Implemented **BullMQ + Redis** async job queues; integrated Stripe, Razorpay, Klarna, and PayPal payment gateways into NestJS services

### Associate Software Developer | ValueCoders Services LLP, Noida Jan 2022 – Apr 2023

- Developed RESTful API modules using **Node.js / Express.js** and Laravel; built React frontends consuming **Node.js** backend APIs
- Optimized **PostgreSQL** queries and database indexing strategies, improving query performance by 40%
- Delivered multiple stable production releases via CI/CD pipelines with zero downtime; collaborated closely with QA and product teams

## KEY PROJECTS

### PGMind – AI Chatbot SaaS Platform [NestJS](#) · [OpenAI API](#) · [Claude](#) · [RAG](#) · [Elasticsearch](#) · [Stripe](#)

- Multi-tenant SaaS chatbot with document & URL-based **RAG** training via Elasticsearch; integrated **OpenAI API & Claude (Anthropic)** with intelligent routing; Stripe subscription billing with **NestJS** webhook handling

### Navigator – AI-Powered HR Intelligence Agent [NestJS](#) · [LLM Pipelines](#) · [MCP Servers](#) · [Custom AI Agents](#)

- Automated employee performance summaries via **custom AI agents** built on **MCP protocol** with LLM prompt chaining in NestJS; reduced manual HR review effort by 65%

### Cedarwood – Real-Time Operations Platform [NestJS](#) · [WebSockets](#) · [Socket.io](#) · [PostgreSQL](#) · [AWS](#)

- Real-time attendance & trial booking using **NestJS WebSockets / Socket.io**; optimized **PostgreSQL** schemas on AWS RDS for high-frequency transactional operations

### GrayPorter – E-Commerce Platform [Node.js](#) · [Express](#) · [AWS EC2/S3](#) · [Stripe](#) · [Klarna](#) · [PayPal](#)

- Full **Node.js** e-commerce backend on **AWS EC2 with S3** media storage; unified payment abstraction layer supporting Stripe, Klarna, PayPal, and Apple Pay

### Squareboat CRM – Internal Business System [NestJS](#) · [BullMQ](#) · [Redis](#) · [PostgreSQL](#) · [RBAC](#)

- Internal CRM with **RBAC dashboards**, pipeline management, and **BullMQ + Redis** powered background job queues and scheduled reporting automation

## EDUCATION & LANGUAGES

### B.Tech in Computer Science – Moradabad Institute of Technology 2022 · 80%

Languages: English (Professional Proficiency) | Hindi (Native)