

Tanishq Joshi

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with 7.5+ years of experience building scalable, production-grade APIs and AI-powered systems. Specialized in Node.js, AWS serverless architecture (Lambda, S3, SQS, Step Functions), and Agentic AI — including RAG pipelines, OpenAI API integrations, and prompt engineering. Proven ability to lead teams, automate high-impact workflows, and deliver reliable systems using TDD, CI/CD, and Agile practices. Targeting product-focused engineering roles at the intersection of backend systems and AI.

CORE SKILLS

Cloud & AWS: Lambda · S3 · SQS · Step Functions · CloudWatch · IAM · Multi-Account Deployments
AI & LLM: Agentic AI · Copilot Studio · OpenAI API · RAG · Prompt Engineering · Vector Search · LLM Integration
Backend: Node.js · Python · Express.js · REST API Design · JWT Authentication · Rate Limiting · SQL · TypeScript
Frontend: React.js · Next.js · Responsive UI · Figma-to-Code
DevOps & QA: GitHub Actions · Docker · CI/CD · TDD · Jest · Mocha · Sinon · Automation Scripting
Tools & Practices: Git · Jira · Postman · Swagger · Agile/Scrum · Code Review · Team Mentorship

PROFESSIONAL EXPERIENCE

Software Engineer — Serverless & AI Platform (IT Analyst)

Sept 2024 – Present

Tata Consultancy Services (TCS) · Pune, Maharashtra (Remote — Indore-based)

- Led a team of 5+ engineers** across 3 parallel workstreams, maintaining 100% on-time delivery over 4 consecutive quarters.
- Architected and maintained serverless API contracts** across 10+ AWS accounts (Lambda, S3, SQS, Step Functions, CloudWatch), supporting multi-cell production deployments.
- Built Python and Node.js automation scripts for code migration pipelines**, cutting manual migration effort by ~60% and reducing error rates to near zero.
- Implemented AI-assisted automation using GitHub Copilot and prompt engineering** to auto-remediate security vulnerabilities and generate unit tests, reducing QA turnaround time by 40%.
- Applied TDD (Jest/Mocha) and Agile practices across all delivery cycles, maintaining 85%+ test coverage on critical API paths.

Software Engineer

May 2022 – Sept 2024

Mindbrowser · Pune, Maharashtra

- Secured APIs handling 200K+ daily requests** using JWT-based authentication and rate limiting, eliminating unauthorized access incidents in production.
- Integrated AWS SQS, SES, Step Functions, Lambda, and S3** into production systems, achieving a 30% improvement in cloud service efficiency and reducing infrastructure costs.
- Containerized application deployments using Docker**, reducing deployment time by 40% and ensuring environment consistency across development and production.
- Transformed Figma designs into responsive React and Next.js frontends**, increasing website traffic by 25% and reducing average page load time by 20%.
- Designed and shipped 15+ REST API endpoints across healthcare and SaaS products, serving 10,000+ end users via web and mobile clients.

Software Developer

Jan 2021 – May 2022

Codiant · Indore, Madhya Pradesh

- **Built CMS modules and REST API contracts using Node.js and Express.js**, delivering backend infrastructure for 3+ content-heavy web platforms.
- Developed and integrated RESTful APIs with frontend applications, ensuring reliable data flow between client and server layers.
- Contributed to the full development lifecycle — from requirements gathering and schema design to deployment and post-release support.

Full Stack Developer

Aug 2020 – Jan 2021

Webkodz · Indore, Madhya Pradesh

- **Designed relational database schemas and built Node.js/Express.js backend services** for 5+ client web applications, reducing average API response time by 25% through query optimization.
- Developed responsive UI components and integrated third-party REST APIs, accelerating frontend delivery by standardizing a shared component library.

Jr. Full Stack Developer

Mar 2019 – Aug 2020

SMT Groups · Indore, Madhya Pradesh

- Developed UI components and integrated REST APIs for internal web applications; contributed to 3 complete project deliveries across a 17-month tenure.

KEY PROJECTS

PeriopMD | Node.js · AWS Lambda · S3 · JWT · OpenAI API

- **Built an AI-assisted clinical API platform** integrated with the OpenAI API, serving 5,000+ medical users with real-time decision support features.
- Implemented JWT authentication, S3 object storage, Stripe payment integration, and subscription/coupon management — processing 1,000+ transactions monthly.

Serverless Multi-Account API Platform | Node.js · Python · AWS Lambda · S3 · IAM · CloudWatch · GitHub Actions

- **Designed and maintained serverless API infrastructure across 10+ AWS accounts**, supporting zero-downtime multi-cell deployments for enterprise-grade workloads.
- Automated CI/CD pipelines via GitHub Actions, reducing average deployment time from 45 minutes to under 10 minutes.

AI-Powered Code Automation Pipeline | GitHub Copilot · GitHub Actions · Prompt Engineering · Copilot Studio

- **Automated API migration and security vulnerability remediation workflows**, processing 500+ code files with AI-assisted fixes and reducing manual review hours by ~70%.
- Authored structured prompt instruction files for automated unit test generation, improving test coverage from 45% to 80% across migrated codebases.

EDUCATION

Bachelor of Engineering — Automobile Engineering

2015 – 2019

SVITS, Indore, Madhya Pradesh

Higher Secondary Certificate (HSC)

2014 – 2015

Ideal Academy, Indore, Madhya Pradesh

CERTIFICATIONS & LEARNING

- AWS Certified Developer – Associate (In Progress, 2025)
- Agentic AI & LangGraph — DeepLearning.AI (Completed)
- GitHub Copilot Certification — Microsoft / GitHub (Completed)

BLOGS & ARTICLES

- [Google Drive API Integration with Node.js — Mindbrowser Engineering Blog: mindbrowser.com/google-drive-api](#)
- [Promises, Async & Speed: The JavaScript Cheat Code Your Senior Won't Share — dev.to/tanishq510](#)