

# Aman Kale

Software Developer

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## Professional Summary

Passionate software developer with 3+ years of experience in building scalable applications. Skilled in backend architecture, cloud infrastructure, and AI-assisted development with a focus on rapid prototyping, integrations, and system optimization.

## Skills

**Languages/Frameworks:** Node.js, NestJS, JavaScript, TypeScript, Python, React, Angular  
**Databases:** MongoDB, PostgreSQL, Redis, SQL, Mongoose  
**Cloud/DevOps:** AWS (EC2, S3, IAM, SNS, SES, LB), Docker, ECS, PM2, Nginx, Cloudflare, CI/CD  
**Architecture:** Redis Queue, RabbitMQ, DLQ, Poison Pill, Event-driven  
**APIs/Protocols:** REST, GraphQL, gRPC, WebSocket, SSE, OAuth 2.0, JWT  
**Testing:** Jest, SuperTest, K6, Unit/E2E Testing, TDD  
**Tools:** Stripe, Firebase, Algolia, SendGrid, Twilio, Git, Jira, ChatGPT

## Work Experience

Senior Engineer	Rapid Innovation, New Delhi	Jul 2021 – Present
– Engineered scalable microservices in <b>NestJS</b> handling <b>more than 50K daily requests</b> , with <b>Redis caching</b> reducing API latency by 45% and DB load by 60%.		

## Projects

### GratifyIn (Ongoing)

- Built a real-time ride coordination platform using **WebSocket, Redis, and SSE**, ensuring  $\leq 100$ ms latency, 99.9% uptime, and seamless synchronization across users.
- Integrated secure user authentication with **OAuth 2.0** (95% adoption) and implemented **Firebase-based notifications**, driving 78% user engagement and expanding supplier reach by 40%.

### Tractor Tuesday

- Developed **BFF microservices** on EC2 with **PM2** handling 30K+ daily requests, deployed behind an **Amazon Load Balancer** with performance verified via **Jest** and **K6**.
- Integrated **Stripe** for bid holds (\$10K+/month), with webhook-based automation and secure payment logging.
- Built a secure authentication system using **Redis cache** with **AES-256 encryption**, salted password hashing, and **OAuth** (Google/Facebook) with **Twilio SMS OTP**.
- Used **Redis Queue** to manage async tasks such as email dispatch and image compression, improving backend responsiveness.
- Implemented real-time auction notifications using **SSE** and **SMTP**, ensuring live updates for bid activity and status changes.
- Created geo-indexed equipment listings with **MongoDB** and interactive filtering via **Leaflet maps**, increasing engagement by 45%.

## Education

MCA – Master of Computer Applications, Bharati Vidyapeeth (SDE)	2019 – 2022
BCA – Bachelor of Computer Applications, PDM University	2016 – 2019

## Academic Projects

**Backup Workflow:** Created a no-code workflow using **n8n** to back up Google Drive to **AWS S3**, with automated user notifications.

**Captions Extraction App:** Built a **Selenium-based app** that extracts real-time Zoom captions into JSON for LLM-driven meeting summaries.