Amresh Chaurasiya

New Delhi, India | amreshchaurasiya373@gmail.com | +91 96961 35363
linkedin.com/in/amresh-chaurasiya | github.com/Amresh-01

Summary

Backend & ML Engineer — 1+ yrs experience — 200+ DSA solved (LeetCode 1500+) — 4 production apps (500+ users). **YC-relevant:** Ship features in 2-3 days, $0 marketing to organic traction, hackathon finalist (top 0.5%). Seeking **SWE Internship Summer 2026**.

Education & Skills

Ajay Kumar Garg Engineering College, Ghaziabad — Ghaziabad, India
B.Tech, Computer Science & Engineering — Merit Scholar — *Expected May 2027*

- **Coursework:** DSA, OS, DBMS, CN, OOP — **Awards:** SIH 2025 Grand Finalist (top 0.5%), Merit Scholar
- **Languages:** Java, Python, JavaScript/TypeScript, C++, SQL
- **Backend/ML:** Node.js, Express, FastAPI, REST, WebSockets, gRPC, GraphQL, Microservices, JWT, OAuth 2.0, NLP, LLM (GPT-4), RAG, LangChain
- **Message Queues & Streaming:** Kafka, RabbitMQ, Redis Streams
- **Databases:** MongoDB (Aggregation, Indexing, Sharding), PostgreSQL (Window Functions, CTEs), Redis (Caching, Pub/Sub, Rate Limiting)
- **Cloud/DevOps:** AWS (EC2, S3, Lambda, API Gateway), Docker, Kubernetes (Minikube), Terraform, Git, CI/CD, Nginx, Vercel, Render, Prometheus, Grafana, ELK Stack
- **Frontend:** React, Next.js 14 (App Router), Tailwind CSS, shadcn/ui — **Fundamentals:** DSA, System Design (Caching, Load Balancing, Rate Limiting, Consistent Hashing)

Experience

Blockchain Research Lab — Remote
Backend Developer Intern — *Jan 2025 – Present*

- Architected 3 microservices (10K+ daily requests); slashed API latency 180ms to 85ms (53%) via MongoDB indexing and query optimization
- Deployed RBAC with JWT refresh token rotation + OAuth 2.0 for 500+ users (admin/vendor/customer roles)
- Engineered CI/CD pipeline (GitHub Actions); cut deployment 45min to 12min (73%); 85% test coverage (Jest/Supertest)
- Delivered 12 features in 2-week Agile sprints with 5 engineers; 0 critical prod issues; avg. feature lead time: 3 days

Projects

HealthCareAI — Intelligent Healthcare Platform | ***React, Node.js, FastAPI, MongoDB, Redis, WebRTC, NLP, GPT-4***

- Architected **Intelligence Layer**: unified user health profile + **Neural Dietary Engine** (NLP+GPT-4) flagging high-risk foods for diabetes/hypertension
- Established **HIPAA-compliant PII redaction** + local fallback scoring for offline ML continuity
- Developed multi-role dashboards (Patient/Doctor/Hospital) with isolated JWT auth + WebRTC live video; shipped MVP in 4 weeks
- healthcare-ai.vercel.app | github.com/Amresh-01/HealthcareAi — **Demo:** patient@demo.com / pass

Canteeno — Real-Time Food Ordering | ***Node.js, Express, MongoDB, Socket.io, Redis, Docker, AWS EC2***

- Shipped MVP in 2 weeks (solo); acquired **50+ users** and **10 GitHub stars** with $0 marketing
- Scaled to 100+ concurrent connections using Socket.io + Redis pub/sub; real-time order latency under 500ms
- Optimized MongoDB queries to lower p95 latency 320ms to 190ms (40%)
- Self-taught Docker + AWS; deployed on EC2 with 99.9% uptime over 3 months
- canteeno-peach.vercel.app | github.com/Amresh-01/Canteeno

Built — AI Website Generator | ***Next.js 14, OpenAI GPT-4, Redis, Vercel, Tailwind***

- Generates full-stack Next.js apps from natural language; used by **200+ developers**, saves avg 4 hours/project
- Cached GPT-4 responses with Redis (TTL 7 days); minimized API costs by **35%** ($0.12 to $0.078/request)
- Architected 25+ component library; cut setup from 2 hours to 15 minutes
- Achieved **98 Lighthouse score**, 200ms TTFB on Vercel with ISR
- github.com/Amresh-01/Built

Tiny Distributed Cache — System Design | ***Python, Redis, Consistent Hashing, Docker, Locust, Prometheus***

- Developed **consistent hashing ring** with 128 virtual nodes; cut cache miss rate by **35%** vs naive hashing
- Established TTL-based eviction + replication factor 2; achieved 99.9% cache availability during node failures
- Benchmarked with **10K req/s** (Locust); p99 latency under 15ms; exported metrics to Prometheus
- github.com/Amresh-01/tiny-distributed-cache

Achievements & Open Source

Competitive Programming: LeetCode 1500+ rating (200+ problems solved)

- Specialized in graphs, DP, segment trees, greedy algorithms

Smart India Hackathon 2025 — Grand Finalist (Top 25/5000+ teams, top 0.5%)

- Created AI timetable generator using constraint satisfaction (CSP); slashed manual scheduling by **80%** for 500+ faculty
- schedulifyai.live | github.com/ayushsingh212/Synchron-Backend

Open Source Contributions | ***TypeScript, Rust, Python, JavaScript***

- Submitted **multi-admin PR** to InsForge/InsForge (+1,366/-70 lines, 32 comments); rolled out role-based dashboard access
- Active contributor to **sourcebot, twenty, OpenSpec, JCode** (Rust); **59+ contributions** across 25+ repositories (2025-2026)
- Recipient of GitHub **Pull Shark** achievement
- **Teaching Assistant**: Mentored 50+ first-year students in DSA, Python, Git/GitHub workflows