

# Ankush Singh

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## Education

GLA University

Bachelor of Technology in Computer Science and Engineering

CSE 2027

## Experience

### Freelance Full Stack Developer

2024 – Present

Tech: Next.js, React, Node.js, FastAPI, MongoDB, PostgreSQL, Stripe, Shopify, Vercel

- Delivered 7+ production-grade applications across e-commerce, SaaS, healthcare, and education, ranging from high-converting landing pages to enterprise-scale hospital systems handling 500+ concurrent users
- Structured and deployed full-stack solutions including Shopify storefronts, SaaS dashboards with Stripe integrations, hospital management suites, and academic admin portals with consistent on-time delivery
- Oversaw client projects through iterative 4–8 week cycles covering planning, execution, QA, and launch while sustaining clear communication and reliable delivery

### Full Stack Development Mentor - SkillHigh

February – March 2025

Tech: React.js, Node.js, Express.js, MongoDB, REST API, JWT Authentication, Vercel

- Directed comprehensive full-stack training covering HTML/CSS through MERN production workflows for 500+ learners, reaching a 90%+ completion rate
- Produced 10+ practical assignments focused on API development, JWT auth, database modeling, and Vercel deployment achieving an average feedback score of 4.8/5

### Full Stack Developer Intern - LegaByte Innovations

May – June 2024

Tech: FastAPI, Python, Docker, Azure Kubernetes Service (AKS), Next.js, Shadcn-UI, Material-UI

- Enhanced scalable Next.js interfaces and high-efficiency FastAPI microservices; partnered with the CTO to refine multi-tenant infrastructure sustaining 500+ simultaneous requests
- Packaged 5+ microservices using Docker and executed deployments via Azure Kubernetes Service, reducing rollout time by 35% and strengthening system consistency

## Projects

### AetherLink - Secure P2P File Transfer System

Tech: Next.js 16, Go (Fiber), TypeScript, Tailwind CSS, xxHash, Server-Sent Events

- Produced a distributed file-sharing framework with 1MB chunked uploads, resume capability, and xxHash-based file verification
- Integrated secure access control via 32-character hex Share IDs
- Crafted a Go Fiber backend handling multi-threaded chunk pipelines, live SSE indicators, and 4-worker synchronized reassembly delivering flawless integrity across 25+ tests

### API Gateway - High-Performance Microservices Router

Tech: Golang, PostgreSQL, MongoDB, Redis, Next.js, Docker, Node.js

- Devised a Golang-powered gateway utilizing goroutines and channels for routing, authentication, and rate limiting
- Organized modular microservices including auth, payments, and notifications
- Formulated a Next.js monitoring suite providing live API metrics, key administration, and traffic visualization; supports 1000+ req/sec on Docker

### Brolang - Custom Programming Language Compiler

Tech: TypeScript, Node.js, Lexical Analysis, Compiler Design, WebSocket, Redis, Event-Driven Architecture

- Constructed a full compiler supporting loops, conditionals, arrays, arithmetic operations, and robust error feedback
- Released a real-time feedback pipeline using WebSocket and Redis event messaging
- Achieved growing traction: 1000+ active testers, 200+ GitHub stars, and continuous community participation

## Skills

- **Languages:** JavaScript, TypeScript, Python, Golang, C++
- **Frontend:** React, Next.js, Tailwind CSS, Shadcn-UI, Material-UI
- **Backend:** Node.js, Express.js, FastAPI, REST APIs, Microservices, WebSockets, JWT

- **Databases:** MongoDB, PostgreSQL, Redis
- **DevOps & Cloud:** Docker, Azure Kubernetes Service, AWS, Git
- **Specializations:** Full-stack system design, compiler design, real-time applications, Stripe, Shopify

## Achievements

- Secured second runner-up at Imagine Hackathon organized by PanIIT Alumni Association
- 850+ commits in last 365 days on GitHub; highly active codebase demonstrating consistent development activity
- Solved 200+ DSA problems on LeetCode and GeeksforGeeks; consistent hard-level problem solver
- Open source contributions to BuyMeACoffee and 100xdevs repositories