

# Ankush Singh

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**Summary** — Software Engineer specialized in full-stack development with Java, TypeScript, and modern web technologies. Experienced in building scalable applications from frontend to backend, crafting responsive UIs with Next.js, designing robust APIs, and architecting distributed systems. Proficient with cloud infrastructure (AWS, Docker) and passionate about end-to-end system design and performance optimization.

## Skills

- C++, Golang, JavaScript, Python
- React, Next.js, Node.js
- Prisma, Tailwind CSS
- MongoDB, PostgreSQL, Redis
- Docker, AWS, Git
- REST API, Microservices, WebSockets

## Education

### GLA University

Bachelor of Technology in Computer Science and Engineering

CSE 2027

## Experience

### Full Stack Developer Intern - LegaByte Innovations

May - June 2024

Tech: FastAPI, Python, Docker, Azure Kubernetes, Next.js, Shadcn-UI, Material-UI

- Collaborated with CTO and development team to build scalable product architecture, optimizing data transfer with FastAPI-powered API Gateway.
- Containerized microservices with Docker and deployed on Azure Kubernetes Service.

### Full Stack Development Mentor - SkillHigh

February - March 2025

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

- Developed and delivered comprehensive full-stack curriculum covering React.js, Node.js, Express.js, and MongoDB.
- Designed hands-on projects with REST API development, JWT authentication, and database management.

## Projects

### Brolang - Custom Programming Language

Tech: TypeScript, Node.js, Lexical Analysis, Compiler Design

- Developed compiler with support for loops, conditionals, arrays, and arithmetic operations.
- Implemented event-based architecture with Redis and WebSocket for real-time feedback.
- Built comprehensive error handling system with detailed syntax error reporting.

### API Gateway - Microservices Gateway

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

- Built high-performance API Gateway in Golang using goroutines and channels for request routing, authentication, and rate limiting.
- Designed modular microservices with authentication, payment, and notification services.
- Developed Next.js monitoring dashboard with real-time API visualization and secure key management.

### Chatsia - Real-Time Chat Application

Tech: React, WebSocket, WebRTC, Node.js, MongoDB

- Developed real-time chat with video calling using WebSocket and WebRTC.
- Implemented messaging protocols with automatic reconnection and message queuing.
- Built responsive UI with optimized media streaming and secure communication features.

## Achievements

- Secured second runner-up at Imagine Hackathon organized by PanIIT Alumni Association.
- Solved 200+ DSA problems on LeetCode and GeeksforGeeks.