

# Ankush Singh

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**Summary** — Software Engineer skilled in Go, Next.js, and TypeScript, with experience in compiler design, distributed systems, and real-time applications. Passionate about performance and user-focused solutions.

## Skills

- Golang, TypeScript, Python
- React, Next.js, Express.js, Node.js
- MongoDB, PostgreSQL, Redis, Kafka
- Docker, Kubernetes, CI/CD, AWS
- gRPC, RestAPI, GIT, GitHub, BitBucket

## Projects

### Brolang - A fun programming language

- Developed a compiler for a custom programming language, focusing on parsing, lexical analysis, and code evaluation.
- Integrated support for loops, conditionals, arrays, and arithmetic operations, ensuring efficient execution and seamless error handling.
- Event-based architecture to design and implement real-time feedback and distributed processing capabilities using Kafka, Redis, and WebSocket.

### Sudodev - Mini Backend-as-a-Service (BaaS)

- Built a high-concurrency backend in Go, leveraging goroutines, channels, and asynchronous programming.
- Designed a frontend with Next.js and modern UI libraries to provide a user-friendly interface.
- Developed secure API key management, allowing clients to send emails and upload images to Cloudinary without additional libraries, simplifying integrations with just API calls.

### Chatsia - Real-Time Chat and Video Call Application

- Developed a chat application with real-time messaging and video call functionality, ensuring seamless user interactions.
- Integrated robust messaging protocols using WebSockets and WebRTC for reliable video calls, focusing on performance and low-latency communication.
- Emphasized user experience with a responsive design and secure communication features.

## Education

### GLA University

Bachelor of Technology in Computer Science and Engineering  
CPI: 8.02

CSE'27

## Experience

### Full Stack Developer Intern - LegaByte Inovations

May - June 2024, Remote

- Collaborated with a team to build final product under CTO guidance, improving data transfer speed by 25% with a FastAPI-powered API Gateway.
- Containerized APIs with Docker, deployed on Azure Kubernetes, enhancing system reliability.
- Built 15+ Next.js components using UI libraries like Shadcn-UI and Material-UI, boosting development efficiency by 30%.

### Next.js Developer Intern - Vistaran Technotrix Pvt. Ltd.

July 2024, Remote

- Optimized code to improve SEO by 30% and reduce load time by 20%, resulting in a 15% increase in organic traffic.
- Enhanced Next.js and React performance, delivering a seamless user experience with efficient code structure.

## Achievements

- Solved 100+ problems on Data Structures and Algorithms on Leetcode and Geeks-for-Geeks.