Ankush Singh

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Summary — Software Engineer with expertise in Golang, Next.js, and TypeScript, specializing in high-performance distributed systems, compiler design, and real-time applications. Passionate about backend scalability, system design, and DevOps, leveraging advanced concurrency models, low-level performance optimizations, and modern web frameworks to build highly efficient, scalable, and user-centric solutions that meet real-world demands.

Skills

- Golang, TypeScript, Python
- React, Next.js, Express.js, Node.js
- Flask, Go-Fiber, Prisma

- MongoDB, PostgreSQL, Redis, Kafka
- Docker, Kubernetes, CI/CD, AWS
- RestAPI, GraphQL, GIT,

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   CSE 2027

Bachelor of Technology in Computer Science and Engineering

Experience

Full Stack Developer Intern - LegaByte Innovations   May - June 2024, Remote

- Worked closely with the CTO and development team to build a scalable product, optimizing data transfer speed with a FastAPI-powered API Gateway.
- Containerized APIs with Docker and deployed on Azure Kubernetes, improving system reliability and scalability.
- Developed reusable Next.js components using Shadcn-UI and Material-UI, streamlining UI development and enhancing user experience.

Full Stack Development Mentor - SkillHigh   February - March 2025, Remote

- Developed and taught a full-stack web development curriculum covering React.js, Node.js, Express.js, and MongoDB, enabling students to build scalable applications from scratch.
- Designed hands-on projects integrating frontend (React) with backend (Express, Node.js) and database (MongoDB), emphasizing REST API development, authentication, and deployment.
- Provided in-depth mentorship on modern web technologies, including state management, API handling, database interactions, and cloud deployment, fostering industry-ready skills.

Achievements

- Achieved second runner-up position at Imagine Hackathon organized by PanIIT Alumni Association.
- Solved 200+ problems on Data Structures and Algorithms on Leetcode and Geeks-for-Geeks combined.