

Ankush Singh

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Education

GLA University

CSE 2027

Bachelor of Technology in Computer Science and Engineering

Experience

Next.js Full Stack Developer Intern

Jun 2024 – Jul 2024

Vistarar Technotronix Pvt. Ltd. — Remote, Gandhinagar, India

Tech: Next.js, React, Prisma ORM, SEO, Web Performance Optimization

- Optimized SEO and web performance across production Next.js repositories, improving Core Web Vitals (LCP, CLS) and increasing organic visibility through structured metadata, sitemap optimization, and server-side rendering enhancements
- Refactored and maintained existing codebases to reduce bundle size and page load time, contributing to faster client-side navigation and improved Lighthouse performance scores

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 dynamic 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 100+ 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, Pub-Subs and Redis event messaging
- Achieved growing traction: 1000+ active testers and continuous community participation

Skills

- **Languages:** JavaScript, TypeScript, Python, Golang, C++
- **Frontend:** React, Next.js, Tailwind CSS

- **Backend:** Node.js, Express.js, Go-fiber
- **Databases and Others:** MongoDB, PostgreSQL, Redis, AWS, Docker

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 300+ Data Structures and Algorithms problems on LeetCode and GeeksforGeeks, demonstrating strong problem-solving and algorithmic thinking.
- Contributed to open-source projects, including 100xdevs, by adding new features, fixing bugs, and collaborating with the developer community.