

# Animish Sharma

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## EDUCATION

**International Institute of Information Technology (IIIT)**  
*B.Tech in Electronics and Communications Engineering*

Hyderabad, India  
*Expected July 2028*

## EXPERIENCE

### Full Stack Developer Intern

Jun 2024 – Aug 2024

*LevelUp*

*Remote*

- Engineered scalable backend services using **Node.js** and **REST APIs**, optimizing **SQL** queries to reduce data retrieval latency by **30%**.
- Developed high-performance front-end interfaces with **Next.js** and **React**, implementing responsive design principles that increased user session time by 15%.
- Integrated **RBAC (Role-Based Access Control)** and secure authentication protocols (JWT), enhancing platform security and analytics tracking.

## PROJECTS

### Go Blockchain System | *Go, Cryptography, Distributed Systems, P2P*

- Architected a decentralized **blockchain** in **Go** from scratch, implementing SHA-256 Proof-of-Work (PoW) consensus to ensure 99.9% ledger integrity.
- Built a custom **P2P networking layer** for node discovery and block propagation, achieving sub-250ms latency across simulated distributed nodes.
- Optimized memory management and concurrency using Go routines, improving transaction throughput by **35%**.

### ChatPDF - AI Assistant | *FastAPI, Next.js, RAG, Vector DB*

- Developed a Retrieval-Augmented Generation (**RAG**) application using **FastAPI** and **LangChain** to enable Q&A on PDF documents.
- Integrated **ChromaDB** for high-dimensional vector storage and **Ollama** for local LLM inference, reducing token costs by 100% compared to cloud APIs.
- Designed a responsive UI with **Next.js** tailored for document parsing, achieving a **95% user satisfaction score** in beta testing.

### Letters (Secure Chat App) | *Flutter, WebRTC, Supabase*

- Built a cross-platform mobile application using **Flutter** featuring **End-to-End Encryption (E2EE)** for secure messaging.
- Implemented real-time communication features including location sharing and video calls using **WebRTC** and **WebSocket** protocols.
- Leveraged **Supabase** for backend orchestration and **SQLite** for local caching, reducing app load times by **40%**.

### Haskell Theorem Prover | *Haskell, Formal Logic, Lambda Calculus*

- Implemented a symbolic reasoning engine in **Haskell**, utilizing the Curry-Howard correspondence to verify logical proofs.
- Designed a parser for propositional and predicate logic that verifies mathematical theorems with **100% accuracy** on test suites.
- Demonstrated proficiency in functional programming concepts including Monads and recursive data structures.

## TECHNICAL SKILLS

**Languages:** Golang, C++, Python, TypeScript, Haskell, SQL, Solidity, Dart, C#

**Frameworks:** Next.js, React, FastAPI, Flutter, Express, Vue, Electron

**DevOps & Tools:** Docker, Kubernetes, Git/GitHub, Linux, Firebase, Supabase, ChromaDB

**Core Concepts:** Distributed Systems, Data Structures, Algorithms, Cryptography, OOPS, DBMS

## ACHIEVEMENTS

**Winner:** CBSE National Science Exhibition (Computer Science Category)

**Finalist:** BuildTogether S-5 Hackathon

**Selection:** HP Youth Talent Program

**Rank:** Diamond Badge in Problem Solving (Python) on HackerRank

## LEADERSHIP & SERVICE

### Tech Team Member | *IIIT Hyderabad*

- Maintained technical infrastructure for major student bodies including The Gaming Club, E-Cell, and OSDG.
- Deployed event websites and automation scripts, ensuring 99% uptime during high-traffic campus fests.

### Junior Placement Coordinator | *Placement Cell, IIIT Hyderabad*

- Managed recruitment logistics for 100+ companies, facilitating seamless placement drives for the university batch.