

I am a **backend-focused software engineer** with expertise in **scalable, high-performance services**, but also a strong proficiency in **full-stack development**, **artificial intelligence** and **web3**.

## Skills and Languages

---

- Languages: TypeScript, Python, C++, Java
- Backend: NodeJS, Express, FastAPI, Flask
- Databases: MongoDB, Postgres, MySQL
- Frontend: ReactJS, NextJS, React Native
- Blockchain: Solidity, Truffle, Ganache
- Artificial Intelligence: TensorFlow, Keras, Deep Learning Models
- Others: Linux, Git, Github, Azure, Firebase

## Education

---

- **Btech. Computer Science & Engineering**, Bennett University, Greater Noida **2023–2027 (ongoing)**

## Projects

---

- **Blockchain Healthcare Record System** · Solidity, Truffle, Firebase
  - Developed a blockchain-based system for secure storage and verification of patient health records.
  - Integrated Aadhar authentication and OTP verification using Firebase for user onboarding.
  - Designed a decentralized IPFS-backed storage system to fragment patient data across hospital nodes.
- **Redis-Based Key-Value Store and Proxy Server** · C++
  - Engineered a Redis server parser in C++ supporting GET, SET with PX expiration and TTL checks.
  - Focused on memory optimization and correct invalidation of expired keys in real-time.
- **BitTorrent Client Implementation** · JavaScript, Node.js
  - Built a simplified BitTorrent client capable of parsing .torrent files and downloading pieces from peers.
  - Implemented piece selection, block requests, and peer wire protocol handling for efficient downloads.
  - Gained deep understanding of distributed peer-to-peer file-sharing systems and network protocols.
- **Fullstack Multiplayer TypeRacer Game** · MERN Stack, WebSockets
  - Designed a real-time multiplayer typing game with live race updates using WebSocket communication.
  - Built user authentication, dynamic lobby creation, and race progress tracking.
  - Optimized server state management for handling multiple concurrent races smoothly.

## Interests

---

- Currently exploring the world of Computer Graphics and Blockchain.
- 3d modelling on Blender