

# Karan Upadhyay

+91-8826865534 | [karanupd12@gmail.com](mailto:karanupd12@gmail.com) | Delhi, India  
[linkedin.com/in/karanupd12](https://linkedin.com/in/karanupd12) | [github.com/karanupd12](https://github.com/karanupd12) | [leetcode.com/karanupd12](https://leetcode.com/karanupd12) | [Portfolio](#)

## Education

**University School of Information, Communication and Technology, GGSIPU** 2022 – 2026  
*Bachelor of Technology in Information Technology, CGPA: 8.28/10.00* Delhi, India

- Relevant Coursework: Data Structures and Algorithms, Java Programming, Object Oriented Programming, Computer Networks, Database Management Systems, Artificial Intelligence

## Technical Skills

**Programming Languages:** Java, Python, JavaScript, C++, Solidity, SQL  
**Frontend Development:** HTML5, CSS3, Tailwind CSS, React.js, Next.js, REST APIs  
**Backend Development:** Spring Boot, Spring AI, Node.js, MySQL, PostgreSQL, MongoDB, Hibernate  
**Developer Tools:** Git, Docker, Postman, VS Code, IntelliJ IDEA, Remix IDE Hardhat, Maven  
**Technologies:** Blockchain, Ethereum, IPFS, MetaMask, Chrome Extensions, Microservices

## Professional Experience

**Software Development Engineer Intern** March 2025 – May 2025  
*Bluestock Fintech* Remote

- Built and integrated **React frontend components** with backend APIs using Axios, improving application responsiveness by **40%** through optimized state management and asynchronous data handling
- Designed and normalized **PostgreSQL database schemas** with proper indexing and foreign key constraints, reducing data inconsistencies by **50%** while ensuring ACID compliance
- Implemented comprehensive **API testing framework** using Postman with automated test suites, achieving **100% test coverage** for all CRUD operations and improving code reliability

**Frontend Development Intern** July 2024 – August 2024  
*CSRBOX* Remote

- Led development team of **5 developers** to build responsive donation platform aligned with UN Sustainable Development Goals, increasing mobile user engagement by **30%**
- Implemented **mobile-first** single-page application layout using CSS Grid, Flexbox, and modular CSS, improving cross-device rendering consistency by **30%** and reducing layout rework during development
- Integrated **EmailJS automation system** for user communications, reducing manual processing time by **40%** and improving user experience through instant notifications

## Projects

**Asgard - Decentralized Image Storage Platform** | *React, Solidity, Hardhat, IPFS, Blockchain* July 2025

- Developed **full-stack decentralized application** using React and Solidity smart contracts for secure image storage on IPFS, achieving **99.9% uptime** and enabling permanent, censorship-resistant file storage
- Implemented **blockchain-based access control system** with MetaMask integration, reducing storage costs by **99%** compared to traditional cloud services while maintaining enterprise-level security
- Optimized smart contract gas efficiency and built responsive UI with real-time gallery features, delivering **sub-300ms file retrieval** and seamless user experience across devices

**Mail-Minter - AI Email Assistant** | *React, Spring Boot, Google Gemini AI, Chrome Extension* January 2025

- Built **AI-powered email response system** using Spring Boot and Google Gemini AI, reducing email response time by **85%** through intelligent context analysis and automated reply generation
- Developed **Chrome extension** with Gmail integration for seamless inbox workflow, processing **100+ email contexts** with real-time AI suggestions and tone customization features
- Achieved **production-ready performance** with sub-1.2 second response times and **100% Lighthouse score** through optimized React state management and efficient API architecture

## Achievements and Certifications

**Competitive Programming:** LeetCode Knight Rank with peak rating of 1868 (Top 10% globally)  
**Hackathons:** Winner of Dev Challenge 2024 Web3 Track, Finalist at Fetch.ai Hackathon IIT Patna  
**Certifications:** Ethereum and DApp Development (Infosys), Java Spring Boot and Microservices (Udemy)