Karan Upadhyay

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EDUCATION

University School of Information, Communication and Technology, GGSIPU — Delhi, India
Bachelor of Technology in Information Technology (CGPA: 8.3/10) — *Aug 2022 – Jun 2026*
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, System Analysis and Design, Advanced Java, Database Management Systems, Operating Systems, Computer Networks

SKILLS

Programming Languages	Java, C/C++, Python, JavaScript, SQL
Core Computer Science	Data Structures, Algorithms, OOP, Multithreading, Concurrency, RESTful Design
Frontend and Backend	HTML5, CSS3, React, Spring Boot, Hibernate, Spring Security, JWT, REST APIs
Databases	MySQL, PostgreSQL, MongoDB (NoSQL)
Developer Tools	Git, GitHub, Docker, Maven, Postman, IntelliJ IDEA, Vercel

EXPERIENCE

Artificial Intelligence Intern — Sep 2025 – Nov 2025
Infosys Springboard — *Remote*
- Designed and delivered a document forensics system with automated classification pipelines for scanner identification, reducing manual verification effort by **70%** while achieving **85%** accuracy.
- Built and scaled data ingestion and preprocessing workflows for **4,000+ images** collected across **11 distinct scanners**, improving system robustness and generalization by **40%**.
- Designed modular processing components enabling batch execution, improving system robustness and repeatability.
- Spearheaded monitoring and validation mechanisms for production-grade **validation and monitoring** workflows, achieving **90%** test confidence.

Web Developer Intern — Jun 2024 – Aug 2024
IBM CSRBOX — *Remote*
- Developed and delivered a **production-ready web platform** supporting donation and volunteering workflows.
- Collaborated with a **5-member engineering team**, participating in feature planning, implementation, and code reviews.
- Improved application responsiveness by **30%**, using mobile-first, cross-device UI design principles consistently.
- Reduced manual operational overhead by **40%**, automating user communication workflows end-to-end systematically.

PROJECTS

SpendWise: Finance Tracker | Spring Boot, MySQL, Spring Security, React — GitHub
- Engineered full-stack personal finance tracking system consolidating income, expenses, bills, analytics securely.
- Implemented **JWT** authentication and robust **CRUD APIs** for revenues and expenses with category-based filtering.
- Built real-time financial dashboards using **React** and **Chart.js**, enabling faster insights and decisions.
- Scheduled monthly expense report service, accelerating financial insight delivery and decision-making by **50%**.

Mail-Minter: Email Assistant | Spring Boot, Spring AI, Google Gemini, Chrome Extension — GitHub
- Built AI-powered email assistant using LLM orchestration, reducing manual response time by **85%**.
- Designed REST APIs enabling asynchronous processing and seamless browser extension integration for Gmail workflows.
- Optimized backend request pipelines to achieve **sub-1.2s** average response latency consistently.

Asgard: Image Vault | React, IPFS, Solidity, Hardhat — GitHub
- Developed decentralized image-sharing dApp ensuring **99.9%** uptime through IPFS-based censorship-resistant storage.
- Implemented blockchain-backed, key-based cryptographic image access ensuring secure storage and retrieval.
- Optimized smart contract interactions and retrieval paths to reduce operational overhead and access latency.

ACHIEVEMENTS

- **LeetCode & GFG:** Solved **1100+ DSA problems** across arrays, strings, trees, graphs, and dynamic programming.
- **LeetCode:** Achieved **Knight** badge with **1870+ rating**, best global rank **386**, top **5%** globally. (Profile)
- **CodeChef:** **2-Star** competitive programmer with **1450+ rating** and best global rank **994**. (Profile)
- **Hackathons:** Drove team execution to finals at the Fetch.ai Agent Hackathon, **IIT Patna**, outperforming **180+** teams, and won Dev Challenge 2024 for Most Innovative **Web3** Project.

CERTIFICATIONS

- Java, Spring Framework 6 and Spring Boot 3 — **Udemy** — View Certificate
- Generative AI & LLM Fundamentals — **Google** — View Certificate