

Karan Upadhyay

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EDUCATION

University School of Information, Communication and Technology, GGSIPU Delhi, India
Bachelor of Technology in Information Technology (GPA: 8.3) Nov 2022 – July 2026
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Database Management Systems, Computer Networks, System Design

EXPERIENCE

Artificial Intelligence Intern Sep 2025 – Nov 2025
Infosys Springboard Remote

- Designed a deep learning model for scanner source identification, reducing manual verification effort by **70%**.
- Built data ingestion pipelines for **4,000+** images across **11** scanners, boosting system robustness by **40%**.
- Optimized training pipelines through **dataset normalization**, slashing end-to-end training time by **2 hours**.
- Spearheaded **monitoring and validation** processes for forgery detection, achieving **85%** accuracy on test data.

Web Developer Intern Jun 2024 – Aug 2024
IBM SkillsBuild Program Remote

- Led a **5-member Scrum team** through sprint cycles, delivering the project successfully **ahead of schedule**.
- Owned **feature planning** and conducted rigorous **code reviews** ensuring quality across development phases.
- Improved application responsiveness by **30%** through mobile-first design and cross-device UI optimization.
- Automated user communication and volunteering workflow, reducing manual operational overhead by **40%**.

PROJECTS

SpendWise - Finance Tracker | *Java, Spring Boot, React, MySQL, Docker* | [GitHub](#)

- Engineered a **full-stack** finance tracking system consolidating income and expenses with real-time analytics.
- Automated monthly **expense reporting service**, accelerating delivery by **50%** via scheduled email summaries.
- Integrated **JWT** with **Spring Security** filters enabling secure login and **role-based access** mechanism.
- Dockerized backend services, deployed on Render and Vercel, supporting **1,000+** concurrent users reliably.

Asgard - Storage Vault | *React, Solidity, Hardhat, Polygon Network* | [GitHub](#)

- Pioneered decentralized image storage app with **Ethereum** and **IPFS** for a censorship-resistant storage solution.
- Engineered blockchain-verified **cryptographic access control** for secure image retrieval and privilege control.
- Streamlined smart contract interactions and deployed on Polygon, achieving **100%** production service uptime.

MailMinter - AI Email Assistant | *Spring Boot, Spring AI, Google Gemini, Chrome Extension* | [GitHub](#)

- Developed an AI-powered email assistant that generates contextual replies, reducing response time by **85%**.
- Architected **REST APIs** for async processing and Gmail browser extension integration workflows seamlessly.
- Delivered **sub-2s** latency with **circuit breaker** fallback, preventing cascading failures in production systems.

Place Review System (Backend) | *Java, Spring Boot, Hibernate, MySQL* | [GitHub](#)

- Built Spring Boot **REST APIs** enabling authenticated users to review real-world places with ratings (1 to 5).
- Implemented **JWT**-secured, layered backend handling users, places, reviews, and dynamic place creation process.
- Optimized search and retrieval by name, rating, and category, delivering ordered, low-latency review responses.

TECHNICAL SKILLS

Programming Languages: Java (core and advanced), C++, Python, JavaScript, SQL
Framework & Libraries: HTML, React, Next.js, Spring Boot, Hibernate, Spring Security (JWT & OAuth 2.0)
Databases: MySQL, PostgreSQL, MongoDB (NoSQL)
Developer Tools: Git, GitHub, Docker, Maven, Postman, IntelliJ IDEA, Vercel

AWARDS AND ACCOMPLISHMENTS

- Solved **1100+ DSA problems** with **60+** global contest participations across LeetCode, CodeChef, GFG.
- Earned LeetCode **Knight** badge (rated **1870+**, best rank **386**, [Profile](#)) and CodeChef **2-Star** (rated **1450+**).
- 1st Place**, Dev Challenge 2024 (**Web3 Track**), outperforming **180+ teams** across the **Asia-Pacific** region.
- Top 10**, Vihaan Hackathon (**DTU**) - Led a **4-member team** to build a **zero-commission B2C e-commerce** application in **24 hours**, competing against **70+ teams**.