

Rittik Sharma

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EDUCATION

Indian Institute of Technology Patna
B.Tech in Electrical and Electronics Engineering
DAV Public School, Cantt, Gaya, Bihar
Class XII, CBSE
DAV Public School, Kaiya, Gaya, Bihar
Class X, CBSE

Patna, Bihar, India
Nov 2022 - May 2026
May 2021
Grade: **95.4%**
May 2019
Grade: **96.0%**

EXPERIENCE

Vivriti Capital Pvt. Ltd. Chennai, Tamil Nadu
Software Development Intern - Research & Development
Jan 2026 - June-2026

- **Designed** a full-stack **Data Vault Management System** utilizing **Spring Boot**, **React.js**, and **REST APIs**, establishing secure document storage and enterprise-level workflow management.
- **Architected** scalable backend modules for secure file upload, metadata processing, and lifecycle management, reducing **data retrieval latency**.
- **Benchmarked** and analyzed **Ory Hydra** alongside **Keycloak** to evaluate **OAuth2/OpenID** authentication capabilities, scalability, and robust token management.
- **Implemented** a customized **IAM architecture** integrating **Ory Kratos** and **Keto** to enforce centralized **Role-Based Access Control (RBAC)**, secure session management, and API security.
- **Constructed** a high-performance **C++ File Compression System** supporting **Text, PDF, MP4, and WebM** formats, optimizing encoding workflows and significantly reducing storage overhead.

PROJECTS

ResumeIQ Hiring Assistant | Python, FastAPI, Next.js, NLP, LLMs | May 2026 **Source Code**

- **Architected** an AI-powered candidate screening platform combining **3 matching techniques**—TF-IDF, semantic embeddings, and LLM evaluation—to rank resumes against job descriptions.
- **Engineered** a resume ingestion pipeline processing **5+ resume sections** including skills, experience, education, projects, and certifications, with automated candidate data extraction.
- **Reduced** resume analysis latency to **<15s** by decoupling deterministic preprocessing from LLM evaluation and implementing an **asynchronous session-based pipeline** with status polling.
- **Integrated 2 LLM inference modes**—Gemini 2.5 Flash and local Ollama models—and containerized the FastAPI, Next.js, and MySQL stack using **Docker Compose**.

Data Vault & Partner Onboarding Portal | Java 21, Spring Boot, React, AWS | July 2026 **Source Code**

- **Engineered** a full-stack secure data management platform using **Java 21, Spring Boot, React 18, and MySQL**, supporting **3+ core workflows** for partner onboarding, data requests, and document management.
- **Implemented** a **3-layer security architecture** using **Keycloak + Spring Security**, AWS KMS, and AWS Secrets Manager for centralized IAM, encryption, and secret management.
- **Designed** a **multi-tenant database architecture** with schema-driven validation and regex-based data rules to enforce data isolation and consistency across organizations.
- **Built** secure file-vault and audit workflows supporting **symmetric and asymmetric encryption** through AWS KMS while tracking user actions and system events for compliance.

ACHIEVEMENTS

- **Attained** a 4-Star rating on **CodeChef** (Peak Rating: **1808**) and a **1577** rating on **Codeforces**, demonstrating consistent algorithmic performance. **Profile link** | **Profile link**
- **Mastered** advanced **Data Structures and Algorithms** by successfully solving and optimizing **1500+ complex problems** across tier-one coding platforms.
- **Ranked 62nd globally** in CodeChef Starters 128 (Div 3) among **4,400+** participants, and **90th globally** in Starters 173 (Div 2) out of **5,000+** competitors.
- **Secured a global rank of 479** out of **25,000+ competitors** in Educational Codeforces Round 174.
- **Achieved top-percentile academic standing** with an All India Rank (AIR) of **5102** in JEE Advanced 2022 and **7911** in JEE Mains 2022.

SKILLS

Languages: C, C++, Kotlin, Java, JavaScript, Python, SQL
Core: DSA, OOP, DBMS, OS, Computer Networks, System Design, REST APIs
Tools / Frameworks: HTML, CSS, Node.js, Express.js, Spring Boot, ReactJS, Docker, Git, GitHub, Bitbucket, Jira, Confluence, JUnit 5, MySQL, MongoDB, Linux, IntelliJ IDEA, VS Code, Postman, Spinnaker

EXTRA-CURRICULAR

- Served as the **Coordinator** of the esports unit for **IIT Patna's annual sports fest Infinito**, managing all teams and ensuring smooth, conflict-free event execution. 2024