

Kunal Roy Choudhury

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EDUCATION

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering; CGPA : 9.24

Kattankulathur, Tamil Nadu

Aug. 2020 – Sept 2024

EXPERIENCE

Software Developer

Indian Kanoon

April 2025 – Present

Bengaluru, Karnataka

- Built a high-throughput **Django** digitization solution that accelerated the **Servants of Knowledge** initiative.
- Implemented **OCR functionality** and **image transformation frameworks** to enhance text extraction.
- Integrated **GenAI solutions** with **legal corpus architecture**, improving search relevance by **15%**.
- Engineered an **API framework** connecting the document processing pipeline with the legal search platform.

Software Engineer Intern

Chargebee

Sept 2024 – April 2025

Chennai, Tamil Nadu

- Streamlined data migration with **JOOQ**-powered **scheduler jobs**, optimizing SQL query execution.
- Built and optimized **customer data migration**, leveraging **Env properties** for Business Entity mapping.
- Devised an **sandbox data clearing system**, reducing system overhead by a significant **30%**.
- Integrated an **adaptive migration validation** system in **Vue.js**, improving MBE configuration accuracy.

Software Engineer Intern

AiDash

Jan 2024 – Sept 2024

Bengaluru, Karnataka

- Refactored a **SaaS application** into a **microservices architecture**, boosting deployment speed by **40%**.
- Decomposed monolithic components into independent services, enabling better fault tolerance and maintainability.
- Developed a **Java microservices framework** using **Hexagonal Architecture**, improving modularity.
- Revamped a **scalable SQL pagination system**, enhancing query performance by **25%**.

PROJECTS

SyntaxNest | *Node.js, React, JavaScript, Docker, Express.js, Render* [\[GitHub\]](#)

July 2023

- Engineered a **multi-language code execution API** for web applications, decreasing script execution latency.
- Deployed a **Docker-based sandboxing**, ensuring secure and isolated execution of code snippets.
- Enabled seamless execution of **Java, C++, and more** via **POST requests**, improving API response time.
- Designed robust error-handling mechanisms to prevent **Cross-Origin errors**, facilitating front-end integration.

File-System Organiser | *HTML, JavaScript, NodeJS* [\[GitHub\]](#)

Jan 2023

- Built a **Node.js**-based command-line tool for automated file organization, reducing manual sorting time.
- Formulated and structured a customizable sorting system supporting **metadata-based** classification.
- Leveraged the **Node.js File System (fs) module** to efficiently manipulate and manage local directories.

GitHub Bot | *Python* [\[GitHub\]](#)

Sept 2022

- Created a **Python-based GitHub automation bot**, streamlining commit processes and reducing manual effort.
- Incorporated the **GitHub API** for repository updates and leveraged **GitPython** to manage local repositories.
- Enhanced a fully customizable system, enabling users to automate commits with flexible frequency options.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, SQL, JavaScript, TypeScript

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis, Firebase Firestore

Frameworks Libraries: React, Node.js, Vue.js, Express.js, Spring Boot, Material-UI, Tailwind CSS, Redux

Cloud DevOps: Docker, Kubernetes, Jenkins, CI/CD Pipelines

APIs Integration: RESTful APIs, GraphQL, WebSockets, OAuth, JWT Authentication

Certifications: AWS Academy Cloud Operations, Private Cloud Management on IBM Power Systems

ACHIEVEMENTS

Secured 2nd position in India's most prestigious **Smart India Hackathon 23'** organized by the Government of India.