

# KARTIKEYA RANJAN

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## EDUCATION

**BTech in Information Technology**, National Institute of Technology Karnataka, Surathkal Dec 2020 - May 2024  
CGPA: 7.81

## WORK EXPERIENCE

**Senior Associate Developer | National Payments Corporation of India** Sep 2024 - Present

- Developed a chatbot-based Bank/PSP onboarding platform using **ReactJS, Spring Boot, and JWT** based authentication, enabling direct bank submissions; decreased operational effort **40%**, processing time **30%**.
- Spearheaded the migration of the **UPI Portal** handling **650+** Banks/PSPs, from legacy **JSP** pages to a modern **ReactJS** frontend, resulting in a **50%** boost in UI responsiveness.
- Refactored **Spring MVC** controllers into **REST APIs** for the UPI Onboarding Portal, reducing page load times by **35%** and improving long-term maintainability.
- Enhanced the UPI API test executor OneClick (**ReactJS/Spring Boot**) handling **40+** APIs testing, by fixing critical bugs, optimizing backend workflows, and adding new API logic; increased stability by **45%** and reduced testing time by **25%**.

**Software Developer Intern | Jio Platforms Limited** May 2023 - Jul 2023

- Integrated **2.5M** instances into the **Knowledge Graph** via **gRPC** ingestion using scraped data and existing ArangoDB datasets and modeling ontologies.
- Established a documentation for Knowledge Repository Service using **MkDocs**, improving API adoption by **30%** and standardizing internal API references.

## PROJECTS

**Wager Wheels - A decentralized gaming platform** [\[Website\]](#) [\[GitHub\]](#)

- Constructed a decentralized gaming platform using **Next.js/Solidity/Chainlink VRF**, delivering provably fair gameplay through verifiable randomness and tamper-proof outcomes using **Fisher–Yates shuffle**.
- Launched and managed smart contracts on the **Sepolia Testnet** and integrated blockchain interactions via **Alchemy**, increasing transaction reliability by **35%** and reducing interaction latency by **20%**.

## SKILLS

<b>Languages</b>	C++, Java, JavaScript, Python, Rust
<b>Frontend Frameworks</b>	ReactJS, NextJS, TailwindCSS, Bootstrap
<b>Backend Frameworks</b>	NodeJS, Express, Spring Boot
<b>Databases &amp; Tools</b>	Apache Cassandra, Postgres, Redis, Kafka, MongoDB, MySQL, Git, GitHub, Linux

## PUBLICATIONS

- A Bidirectional Blockchain Architecture for Supply Chain Management** - 10th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT 2024) [\[Link\]](#)

## CODING ACHIEVEMENTS

- LeetCode Contest Rating **1838** with **700+** problems solved and a best global rank of **418/33040**.
- Rated **1308** on [Codeforces](#) platform.
- 3 Star Coder on [Codechef](#) platform with rating of **1688** and global rank **259** in Division 2.