# ROOPESH S

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## EDUCATION

**Indian Institute of Information Technology, Lucknow** — **Uttar Pradesh**

*Bachelor of Technology - Computer Science and Business* **CGPA: 8.40** — *Nov. 2022 - Present*

**Coursework:** Database Management System,Operating System,Object-Oriented Programming, Data Structures

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, Python, C++, C
**Backend, Web:** Spring Boot, Node.js, ExpressJS, Next.js, ReactJS, GraphQL, Kafka
**Databases, Cache & DevOps:** MongoDB, MySQL, Redis (Bull), Docker, Kubernetes, Linux
**Blockchain & ML:** Solidity, Web3.js, Ethers.js, Hardhat, IPFS, Polygon, TensorFlow, Scikit-learn

## WORK EXPERIENCE

**Microsoft** — **Noida, India**

*Software Engineering Intern* — *June 2025 - Present*

- Built **Visualize as Table** feature in PowerPoint Copilot web, enabling structured table generation from rewritten content and improving document authoring workflows.
- Enhanced **backend services** supporting Copilot rewrite flows by fixing production issues and improving request handling, contributing to a **3.8% increase** in rewrite feature adoption.

**ACKO General Insurance** — **Bangalore, India**

*Software Engineering Intern* — *Dec 2025 - Present*

- Implemented **rate limiting** at both **application level** and **KONG Gateway** to optimize the claims processing pipeline, prevent API abuse, and improve system reliability.
- Worked on the **customer claims page**, fixing production bugs and designing **state machines** for insurance workflows to automate approval-stage transitions and improve end-user experience.

## PROJECTS

**ConnectExpress** ↗

*Next.js, Node.js, Express.js, MongoDB, Python (ML)* — *Oct 2024- Dec 2024*

- Designed a **smart railway route finder** using **machine learning** and **path optimization algorithms** helping travelers discover multi-leg journeys during peak seasons when direct trains are unavailable
- Implemented **risk assessment system** analyzing historical delay patterns, weather impacts, and seasonal rush, achieving **85% accuracy** in predicting connection reliability
- Created a **scalable Redis caching** and **MongoDB backend** in accord with **10k+ concurrent route queries** resulting in lesser response times about **40%** during the peak hours

**FarmChain** ↗

*Next.js, GraphQL, MongoDB, Redis (Bull), Node.js, Solidity, IPFS, Polygon* — *Dec 2024 - Jan 2025*

- Architected a **blockchain supply-chain platform** connecting farmers directly to consumers, origin tracking using **GPS coordinates**, farm data, and harvest records with **on-chain verification** for transparent organic certification.
- Designed a **distributed traceability system** using **GraphQL APIs**, **MongoDB** for farm/batch data management, and **Bull (Redis queues)** with backend workers to handle blockchain operations asynchronously, enabling **real-time verification** and scalable consumer authenticity validation.

## ACHIEVEMENTS

- Rated Specialist on **CodeForces** (Max Rating: 1494)
- Rated 4-Star on **CodeChef** (Max Rating: 1819)
- Selected for **Amazon ML Summer School** (Jul 2024); selected again in 2025.
- Winner at **SuperMove Tour DAppathon** - Developed **Meta EDU**  an AR/VR project on Aptos blockchain
- Runner-up at **HackOdisha 3.0** - Won in Gaming Track Category
- Second Runner-up at **Hack-O-Fiesta V4.0** - IIIT Lucknow's hackathon, Second position in Blockchain Track
- Achieved finalist position at **Dapp-Thon**, selected among the top teams from over **1,000** global participants.
- Semi-Finalist at **Flipkart Grid 6.0** - National level hackathon by Flipkart
- Secured Rank **12** and **239** in **CodeChef Starters** Div.4 competitions among 18,000+ and 22,000+ participants

## POSITIONS OF RESPONSIBILITY

- **Senior Member** in Blockchain Wing, Technical Club , IIIT Lucknow
- **Member** in Goonj, Drama Club , IIIT Lucknow