

Shubham Rasal

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EDUCATION

National Institute of Technology, Karnataka

Bachelor of Technology in Information Technology (8.54 CGPA)

Surathkal, Karnataka

May 2025

PROFESSIONAL EXPERIENCE

Server Tech Intern

Oracle

May 2024 – Jul 2024

Bangalore, Karnataka

- Collaborated with the **database cloud services team** to develop a workflow visualization engine - **FlowGenie** that converts a **JSON schema** into a state machine, representing it as a **flowchart** with nodes and edges.
- Enhanced platform usability for the **SRE team** by enabling **workflow editing** within FlowGenie.
- Migrated parts of the existing workflow platform from **JavaScript** to **React** for improved performance and maintainability.

Backend Engineering Intern (Remote)

Easycompany

Nov 2022 – Dec 2022

Bhopal, Madhya Pradesh

- Developed a secure user **registration** and **login** system with **OTP** verification and efficient **session management** using Go, incorporating **concurrency** via **goroutines** to enhance login response time by **30 %**, and created a robust **document parsing library** for various file formats (PPTs, PDFs, DOCs, TXTs, XLSX).

PROJECTS

CipherCraft | NextJS • TailwindCSS • Smart Contracts • Docker | [Code](#) | [Showcase](#)

- Engineered a Decentralised **Hub** for model **training** on access controlled private **datasets**.
- Automated deployment of ML model scripts by **auto-containerizing** them, **training** on a **computing network**, and saving model weights on **IPFS nodes**.
- Implemented feature to host ML models as **REST endpoints** for inference, and ensured model correctness through **zkML**.

Harveeco | NextJS • IPFS • NodeJS • PyTorch | [Code](#) | [Live](#)

- Utilized **NodeMCU microcontrollers** with sensors to collect and process real-time environmental data for accurate agricultural insights, and securely stored the data on the decentralized **Lighthouse network**.
- Applied **ML algorithms** to analyze stored data for predictive trends, aiding farmers in decision-making, and employed **ZKML** to verify model predictions, enhancing transparency and trust.

Deano | Nextjs • TailwindCSS • MySQL | [Code](#) | [Live](#)

- Developed a **decentralized data annotation** platform.
- Implemented a **reputation-based reward** system with **DAN tokens** to incentivize accurate data labeling, ensuring high-quality annotations.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Go, SQL, HTML/CSS, Solidity

Frameworks/Technologies: Next.js, React, Node.js, TailwindCSS, Git, Docker

Coursework: Data Structures and Algorithms, Operating Systems, Database Systems, OOPS

HACKATHONS

- HackFS** - Won multiple track prizes for best use of tooling and innovation.
- HackBangalore** - Won 2nd prize in the Financial Inclusion track for building SMEasy.
- ETH India** - Developed a IoT + AI based solution for farmers. This project won several bounties for innovation.
- ETH Online** - Developed a decentralized annotation platform that won several track prizes.