RISHABH SHARMA

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EDUCATION

Vellore Institute Of Technology

B.Tech in Computer Science and Engineering   **9.08 (CGPA)**   *September 2021 - June 2025*

Courses: Operating Systems, Computer Networks, Object-Oriented Programming (SOLID Principles) ,DBMS ,DSA ,Cloud Computing

SKILLS AND CERTIFICATIONS

• **Certifications:** AWS Cloud Practitioner, NPTEL Cloud Computing Certification
• **Languages/Frameworks:** Java, JavaScript, TypeScript, SQL, Microservices, GraphQL, gRPC, NodeJS, ReactJs, Express.js, MongoDb
• **Applications/Tools :** AWS, Linux, Github, Prometheus, Grafana, Docker, GitHub Actions, Jest

EXPERIENCE

SDE Intern

Emitence Realty & Developers LLP| Mumbai   *May 2023 - August 2023*

- Revamped the company's outdated WordPress website into a high-performance **MERN**-based platform, reducing page load times by **60%** and improving Google Lighthouse scores from 52 to 94, significantly boosting search rankings.
- Developed a backend with **Node.js**, **Express.js and MongoDB**, enabling the team to manage over **50+** daily content updates efficiently and automating workflows for operational ease.
- Conducted **unit testing** using **Jest**, ensuring robust functionality and reducing production bugs by **30%**.

PROJECTS

S3VER - Effortless Hosting for React Developers   **Project Link**

Tech Stack : AWS, React, Node.Js, Express.Js, Simple-git

- Developed S3ver, a platform that enables **React developers** to **automate deployment** by simply providing a **GitHub** repo URL, streamlining the process with **AWS SQS** for **inter-process communication**, and a microservices architecture.
- Engineered a robust upload service that clones repositories, uploads files to **AWS S3**, and tracks progress via **AWS SQS**, **automating** and **accelerating** the deployment process.
- Built a **microservice architecture** with separate Upload, Deployment, and Request Handler services, resulting in 40% reduction in deployment time and separation of concern.

Ethereum Deposit Tracker   **Project Link**

Tech Stack : Docker, Telegram API, Grafana, Prometheum, Node.Js

- Built a real-time Ethereum deposit tracking tool, integrating **Web3.js** for **blockchain** interaction and **Telegram API** for **notifications**.
- Leveraged Prometheus and Grafana for **data visualization**, and **alerting** on deposit events
- **Containerized** the application using **Docker**, ensuring cross-platform compatibility

MRI-acle MIND - Diagnosing Alzheimer's disease   **Project Link**

Tech Stack : OpenCV, Python

- Engineered an advanced model for diagnosing Alzheimer's disease with an accuracy of **94.8%**
- Employed **Spatial Attention** and **Atrous Convolutional Neural Networks** to detect features at 3 levels: low, mid, and high. Improved accuracy as compared to standard CNN models.
- Presented this work at the **15th ICCCNT (IEEE)** Conference at **IIT Mandi**

CROPHECY - Crop Prediction website   **Project Link**

Tech Stack : React.Js, Node.Js, Express.Js

- Integrated a machine learning model with 93% accuracy into the website through **RESTful API** integration.
- **Designed** reusable **React components** for efficient code management, developed an **authentication system**, and **enhanced** accessibility and usability by adding **multilingual functionality (3 languages)**.

ACHIEVEMENTS AND ADDITIONAL INFORMATION

Achievements:- Ranked among top 1 percent out of 23872 qualified students for NPTEL Cloud Computing Certification
- Led a team to build a multilingual crop prediction platform in a 48-hour hackathon, winning 2nd place.
- Participated in DSA Geek Rumble, securing a spot among the top 5 finalists.