KAUSTUBH MISHRA

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EDUCATION

Vellore Institute of Technology, Vellore   **2020 – 2024**
B.Tech. in Computer Science and Engineering (spec. in Business Systems)   *CGPA - 8.54*

TECHNICAL SKILLS

Languages: Java, C, C++, HTML/CSS, JavaScript, SQL, Solidity, Rust, Golang
Developer Tools: MySQL, RemixIDE, Google Cloud Console, Anaconda, ArduinoIDE
Technologies/Frameworks: Linux, Git, Node.Js, React.Js, Truffle, Web3.js, ethers, Next.js

EXPERIENCE

Tata Consultancy Services (TCS)   **Mumbai, India**
Product Engineer   *July 2024 – Present*

- **Backend Development:** Collaborated with the backend team at a global financial institution to architect and deploy scalable microservices using **Java**.

Wealthy   **Bengaluru, India**
FullStack Development Intern   *March 2024 – July 2024*

- **Fullstack Development:** Developed and deployed 10+ feature enhancements across the company ecosystem, using **React.js** and **Python (Django, FastAPI)**, to serve 100,000+ users and improve engagement and system efficiency.
- **Docs Automation:** Engineered a **Rust**-based solution to automate file management across 100+ projects' documentation, optimized CI/CD workflows with **GitHub Actions**, and streamlined **Docker** image deployment to **AWS** ECR for enhanced operational efficiency.

Samsung R&D Bangalore   **Remote**
Research Intern   *May 2023 – February 2024*

- **Multimodal TTS for Facial Model Rendering:** Researched facial avatar generation using **CNNs**, volume rendering, and frameworks like CUDA, PyTorch, OpenCV, and Nvidia Omniverse (Python 3.6-10) for advanced multimodal TTS integration.
- **Dataset Generation:** Produced a **3+ hour** audio-visual dataset **(500+ videos)** for model training and optimization, recording transcripts in varied emotional tones.

PROJECTS

SCMHub: SCM assistance to business owners   ○ **Github**

- **Supply Chain Management Platform:** Developed an SCM platform using **Python (LLMs and NLP)** and a **React.js** frontend to deliver personalized insights, supporting data-driven decision-making and reducing waste by **8-10%** in supply chain operations.

Mediflow: Automated, Remote IV Monitor   ○ **Github**⚲**Demo-Link**

- **Remote IV Monitoring:** Developed an automated IV-drip monitoring system using **Arduino Uno** for sensor programming and Wi-Fi(ESP8266) data transmission, with an Android app displaying real-time statistics by fetching **cloud-based** data, resulting in improved monitoring efficiency and accuracy.

LogRift: A Log-Ingestion System   ○ **Github**

- Implemented the **Elasticsearch, Filebeat, and Kibana stack** for log ingestion, integrated a **Node.js** server to handle requests at **100 rps**, and developed a **Bash script** for real-time updates on the Kibana dashboard,

AWARDS & HONORS

- **Router Protocol Track Prize-**☑ Syntax Error 2023. Won in a hackathon organized by IIT Roorkee.
- **1st Prize**☑ in hackathon organized by SIAM-VIT ○ Github
- **Global Rank 99-**☑ Codechef Long Challenge. Scored 500/700 in problems relating to Arrays, Strings, Bit Manipulation, and more (Currently a 3-Star ↗Profile).

LEADERSHIP / EXTRACURRICULAR

IET-VIT   **January 2022 – January 2023**
Technical Head   ○*Projects* ◉*Website*

- Mentored the technical team (70+) members of IET-VIT. Worked on increasing the team's exposure to new and upcoming technologies and opportunities.

CERTIFICATIONS

- Google Cloud Computing Foundations Programme - **G** GCP