SANKALPA KASHYAP

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Education

New Horizon College of Engineering, Bengaluru Oct 2022 – Present
B.E. in Computer Engineering

Experience

Renault Group, Bengaluru Internship (Ongoing)
DevOps Intern
- Contributed to the design and maintenance of GitLab CI/CD pipelines supporting multiple internal services.
- Automated build, test, and deployment stages to reduce manual intervention and improve deployment consistency.
- Analyzed and debugged pipeline failures related to dependency resolution, environment configuration, and job sequencing.
- Improved repository workflows by standardizing branching strategies and merge processes for smoother code integration.
- Collaborated with developers to align CI/CD workflows with application requirements and release timelines.

Technical Skills

Programming: Java, TypeScript, JavaScript, Dart
Backend: Node.js, Express.js, REST APIs, Authentication, WebSockets, CORS
Databases: PostgreSQL, MongoDB, MySQL, Firebase, Redis
Web & Real-Time: HTML, CSS, WebRTC
DevOps & Cloud: Docker, GitHub Actions, GitLab CI/CD, AWS EC2, PM2, SSH
Tools: Git, GitHub, Power BI

Projects

Plack — TypeScript, React, Node.js, Express, Socket.io, MongoDB
- Built a real-time team communication platform with channel-based messaging and direct chats.
- Implemented WebSocket-based instant message delivery, user presence indicators, and message persistence.
- Designed scalable REST APIs with role-based authentication and MongoDB data storage.

Book-Ticket — TypeScript, Next.js, Express, PostgreSQL, WebSocket, Docker, AWS
- Developed a scalable monorepo application with separate frontend, HTTP server, and WebSocket services.
- Implemented real-time bidirectional communication and secure user authentication.
- Automated CI/CD using GitHub Actions and deployed services on AWS EC2 with PM2.

Coral Reef Health Predictor — Python, Flask, CNN, MySQL
- Developed an AI-powered web application to classify coral reef health using a custom CNN model.
- Built REST APIs using Flask and integrated the model with a dynamic frontend.

Expenser — Flutter, Firebase
- Built a cross-platform expense tracking application with real-time cloud sync.
- Designed interactive dashboards with charts and Dark Mode support.

Achievements & Activities

- Lead liaison for **TEDxNHCE – Kintsugi**, coordinating speakers and event execution.
- Organized **QuantumX (AWS)** technical workshop.
- Freelance video editor with experience working for 5+ clients.