

# SANKALPA KASHYAP

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## Education

New Horizon College of Engineering, Bengaluru  
B.E. in Information Science and Engineering

Oct2022 – Present

## Experience

### • Renault Group - Bengaluru (Internship)

Ongoing

Worked as part of the DevOps team, contributing to the development, optimization, and maintenance of CI/CD pipelines to enhance software delivery and integration processes.

Managed GitLab repositories and implemented automated workflows to streamline version control and code integration.

#### Key Skills

- CI/CD Pipeline Development & Automation
- GitLab & Version Control
- Workflow Automation & Optimization
- Cross-team Collaboration & Troubleshooting

## Technical Skills

**Programming Languages:** Java, Dart,

**Web Technologies:** HTML, CSS, WebRTC, JavaScript,

**Mobile Development:** Flutter, Android Studio

**Backend Development:** Node.js, Express.js, Go-lang, TypeScript, HTTPS, REST APIs, Auth, CORS

**Databases & Storage:** MySQL, Firebase, MongoDB, PostgreSQL, Redis

**DevOPS & Cloud:** Docker, DockerHub, CI-CD, Snowflake, AWS, EC2, SSH, Process-Management

**Tools & Platforms:** Git, GitHub, GitHub Actions, Power BI

**Soft Skills:** Teamwork, Organizational Skill, Adaptability, Creativity

## Projects

**Coral Reef Health Predictor** — Python, Flask, Custom CNN Model, JavaScript, MySQL

- Developed an AI-powered web application for real-time coral reef health assessment using a custom-trained Convolutional Neural Network with Flask-based REST API backend.
- Designed an interactive frontend with live image preview, animated marine-themed UI, and asynchronous submission for seamless binary classification (healthy/unhealthy reefs).

**Book-Ticket** — TypeScript, Next.js, Express, WebSocket, PostgreSQL, Prisma, Turborepo, Docker, AWS-EC2

- Developed a scalable monorepo application with automated CI/CD pipeline deploying three microservices (Next.js frontend, Express HTTP server, WebSocket server) to AWS EC2 using GitHub Actions and PM2 process management.
- Implemented real-time bidirectional communication using WebSocket protocol with Prisma ORM for PostgreSQL database operations, featuring user authentication, session management, and automatic deployment on push to main branch.

**Old-Tuff** — TypeScript, JavaScript

- Cloned and reorganised the complete DSA roadmap under the “Take U Forward” concept, integrating curated links from GeeksforGeeks and other high-quality sources for improved learner navigation.
- Developed the frontend using TypeScript and JavaScript, dynamically rendering roadmap modules and resources to deliver a streamlined learning path.
- Implemented a modular UI/UX structure facilitating rapid access to topic sections, resource contributions, and community collaboration.

**Plack** — TypeScript, React, Node.js, Express, Socket.io, MongoDB, Real-time Systems, WebSockets

- Built a real-time team communication platform inspired by Slack, featuring channel-based messaging, direct chats, and instant message delivery using WebSocket-based Socket.io integration.
- Implemented a scalable Node.js/Express backend with REST APIs, MongoDB storage, and role-based user authentication, supporting message persistence, channel creation, and live presence indicators.

**Expenser** — Flutter, Dart, Firebase

- Built a cross-platform expense tracker for iOS and Android, with adaptive UI and real-time syncing through Firebase.
- Designed interactive graphs and implemented Dark Mode, delivering streamlined financial insights and enhanced user experience.

## Achievements

### • TEDxNHCE, Kintsugi

Successfully conducted TEDxNHCE, Kintsugi as a lead liaison

### • Quantum X (AWS)

Organized QuantumX workshop

### • Freelance Video Editor

Freelance Editor for more than 5 clients