

YASH SONAWANE

Generative AI & LLM Applications — Full Stack Development

☎ +918080408492 ✉ yash129912@gmail.com 🔗 LinkedIn 🐙 GitHub 💡 Leetcode 📍 Kottayam, India

WORK EXPERIENCES

Software Developer Intern | Internship

Feb 2026 - Jul 2026

Kinople

Remote

- **Engineered** an AI-powered conversational scheduling agent using **React, Flask, LangChain, and OpenAI APIs**, enabling production managers to modify film schedules through natural language while automatically validating scheduling feasibility across **100+ production scenarios**.
- **Integrated** Google **OR-Tools (CP-SAT)** with **LLM tool-calling workflows** to solve complex film production scheduling constraints, automating schedule generation while ensuring constraint-compliant assignments for actors, locations, and production resources.
- **Optimized** a **FAISS-based Retrieval-Augmented Generation (RAG)** pipeline for retrieving actor availability, location constraints, and production metadata, improving response relevance while reducing retrieval latency through efficient vector search.
- **Built** reusable React scheduling workflows and **deployed scalable Flask services on AWS Elastic Beanstalk** with Amazon S3 integration, enabling reliable deployments and centralized storage for production scheduling data.

Technologies / Skills Used : React, Flask, LangChain, OpenAI APIs, Google OR-Tools, FAISS, AWS Elastic Beanstalk, Amazon S3

PROJECTS

ETHOS | ☞ Ethos

2026 - Present

Developer

- **Architected** a secure workplace harassment reporting platform supporting **anonymous reporting, encrypted evidence uploads, role-based workflows, and case lifecycle management** using Next.js, Express, and PostgreSQL.
- **Designed** a secure authentication and data protection framework with **JWT, AES-256-GCM encryption, SHA-256 integrity validation, and 2FA**, safeguarding confidential reports and user identities.
- **Developed** a **RAG-powered AI policy assistant** using **Gemini AI and Pinecone vector search**, enabling employees to retrieve policy-specific guidance through natural language queries.

WellNest | ☞ Wellnest

2025 - Present

Developer

- Built a full-stack AI-powered wellness platform using React, Node.js, Express, MongoDB, and Gemini AI to generate personalized meal plans and health recommendations based on user preferences.
- **Implemented** secure authentication using **JWT, Google OAuth 2.0, and OTP-based email verification**, along with an automated email notification system for account verification and password recovery.
- Deployed the React frontend on Vercel and backend APIs on Render, enabling reliable production hosting and scalable application delivery.

ExTrackify | ☞ Ex-trackify

2026 - Present

Developer

- **Built** a full-stack personal finance management platform using the **MERN stack**, supporting expense tracking, budgeting, SIP management, financial analytics, and recurring expense management.
- **Designed and implemented** secure **REST APIs with JWT authentication**, MongoDB/Mongoose data models, **cron-based automation**, and automated email notifications for recurring expenses and account updates.
- **Developed** responsive React dashboards with **Chart.js**, using financial data aggregation to visualize spending patterns, budgets, portfolio information, and financial trends.

SKILLS

Programming Languages :	C++, JavaScript, SQL, C
Coursework :	Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks
Databases :	PostgreSQL, MongoDB, MySQL, Supabase
Frameworks & Libraries :	React, Next.js, Node.js, Express.js
AI & LLMs :	RAG, FAISS, Pinecone, LLM Tool Calling, OpenAI API, Gemini API, LangChain

EDUCATIONS

Indian Institute of Information Technology Kottayam | Kottayam, Kerala, India

2023 - 2027

B.Tech Computer Science

CGPA : 7.91

Indian Institute of Technology Madras | Tamil Nadu, India

2024 - 2028

BS Data Science (Online)

CGPA : 8.84

MINDQUEST CLUB, IIIT KOTTAYAM

- **Backend Developer | Mind Quest Club 2025**
 - Developed a real-time chat application using Node.js, [Socket.IO](#), and MongoDB.
 - Collaborated in an Agile team to design, implement, and test backend features.
 - **LeetCode:** Contest Rating **1636**; solved **500+** Data Structures & Algorithms problems.
 - **HackerRank:** Earned 5🏆 in C++.
 - **Open Source:** Contributed to **Hacktoberfest** through accepted pull requests.