

Saket Sawrav

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WORK EXPERIENCE

Trellisys.Net Pvt.Ltd

Jun. 2024 – Present

R & D Software Engineer

Bengaluru, IN

- Architected, developed and deployed a legislative bill tracking system using microservices architecture, integrating AI for bill analysis and summary generation.
- Implemented AI-powered features including bill summarization, legislative analysis, and conversational interfaces using LlamaIndex.
- Deployed a scalable microservices infrastructure for legislative data processing, implementing CI/CD pipelines with GitHub Actions and Docker containerization.
- Developed microservices architecture for video processing pipeline, integrating AI-based transcription services and AWS S3 storage.
- Engineered a comprehensive application leveraging Next.js and FastAPI, facilitating multi-user workspace capabilities and effective deployments.
- Created an AI-powered plant species identification system with care insights generation.
- Developed an AI assistant for zookeepers featuring voice note transcription and animal care advisory capabilities.
- Engineered a sales analytics platform with AI-driven insights, marketing strategies, and data visualization, using Next.js, Node.js/Express.js & Langchain Framework, also incorporating ELK stack for logging analysis.
- Engineered an AI-powered analytics system that converts natural language questions into SQL queries, enabling non-technical users to instantly access revenue data and performance metrics without coding knowledge, increasing data accessibility by 85%.
- Implemented data masking protocols for secure LLM interactions while maintaining analytical accuracy.
- Engineered efficient microservices for handling various AI processing tasks and data pipelines.
- Automated deployment processes for Next.js and FastAPI applications using FlyIO, with zero-downtime deployment strategies.
- Developed a context-sensitive voice AI assistant using OpenAI Realtime & Gemini Live API that processes real-time speech input, allowing users to engage in natural conversations with customizable knowledge domains, integrated Google Maps for location-based queries and email functionality for automated communication tasks, resulting in 40% improved user engagement and 25% faster query resolution times.
- Integrated Langfuse for comprehensive LLM evaluation and tracing, enabling detailed performance monitoring, cost tracking, and quality assessment of AI model interactions across the realtime voice application.
- Implemented OpenObserve for centralized log aggregation and real-time monitoring of microservices, providing enhanced observability and debugging capabilities for distributed AI systems, reducing troubleshooting time by 60%.
- Developed video annotation pipeline with bounding box support and YOLO export functionality for computer vision model training workflows using Label Studio.
- Developed a full-stack zoo management website using Next.js 14, TypeScript, and Tailwind CSS with Strapi 5 headless CMS, PostgreSQL database, and comprehensive Playwright E2E test coverage, deployed on Railway with Supabase integration.

Waterflow Technology

Apr,2023 – May,2024

Project Innovation Manager

Kathmandu, NP

- Lead AI, DevOps, and QA teams, overseeing multiple projects and products.

- Formulated and led the AI team, successfully implementing a chatbot system using Langchain and OpenAI API.
- Assigned as the Product Owner for the chatbot system, ensuring efficient development and functionality.
- Pioneered the incorporation of a ticketing system within the chatbot system for NAASA Securities, significantly improving efficiency in managing customer queries.
- Continued management of Merolagani and Meroschool projects, maintaining quality and meeting client expectations.
- Spearheaded communication and issue resolution between developers and clients for Merolagani and Meroschool projects, providing technical support, debugging assistance, and integrating third-party solutions.
- Led the development of the Portfolio Management System for Nabil, streamlining their internal processes and enhancing client services.
- Implemented automated CI/CD workflows in Azure using GitHub Actions and Docker, increasing deployment reliability and reducing downtime for projects by 50%.
- Spearheaded the deployment of an existing project management platform, augmenting team collaboration and productivity by 30% through advanced feature integration and user training sessions.

Asterisk Technology Pvt. Ltd.

Oct,2022 – Mar,2023

Project Associate

Kathmandu, NP

- Established proper SDLC practices using SCRUM and Kanban methodologies, improving project efficiency.
- Implemented project management processes and tools such as JIRA, optimising code management and review processes.
- Initiated and developed the DevOps department, mastering Docker, Nginx, and other essential tools.
- Formulated the QA department, enforcing QA practices and incorporating tools like Robot Framework.

EDUCATION

Subharti Dental College

Graduation January, 2022

BDS

Meerut, IN

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals

January, 2023

Microsoft

ISTQB CTFL Certification

October, 2022

ISTQB - International Software Testing Qualifications Board

Google Certified Digital Marketing Course

June, 2021

Google

SKILLS

Technical & AI Skills: Git, Linux, Nginx, Docker, IIS, HTML, CSS, JavaScript, React, Next.js, FastAPI, Node.js, Express.js, Langchain, Llama - Index, Github Actions, Jenkins, ELK, Azure Administrator, Azure OpenAI, AWS, Ollama, Langfuse, OpenObserve, Fine-tuning OpenSource & Closed Sourced AI LLMS.

Project Management: SDLC, Scrum, Kanban, JIRA

QA and Testing: Manual Testing, Robot Framework for Automation, REST API Testing

Linux System Administration

Soft Skills: Coordination, Planning, Budgeting, Planning, Implementation, Enhancement, Integration, Migration

