

SATISH SAHU

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EDUCATION

Indian Institute of Technology, Kharagpur
B.Tech & M.Tech (Dual Degree) - CGPA - 8.83/10

Kharagpur, India
Dec 2020 - Jul 2025

KhelGaon Public School
12th CBSE Board - Percentage - 93%

Prayagraj, UP, India
May 2017 - Apr 2019

KhelGaon Public School
10th CBSE Board - CGPA - 10/10

Prayagraj, UP, India
May 2015 - Apr 2017

EXPERIENCE

Cloud Infrastructure Engineer | ITSO Inc. Tokyo Japan

May'24 - Jul'24

- Utilized the OpenAI APIs and RAG framework to build a Q/A web application designed for corporate documents use
- Integrated core features like multilingual support, context retention, content filtering and low latency document retrieval
- Empowered automation across Microsoft Planner, To-do, Outlook, and MS Teams through the custom action GPT APIs
- Designed an end-to-end automated pipeline for a multimodal chatbot within the Microsoft Teams environment

Backend Developer | Cessini Pvt. Ltd, Kolkata

Dec'23 - Feb'24

- Developed a robust and scalable video streaming backend on the AWS platform by using Node.js, Web Sockets, Redis caching, Kurento media server, and PostgreSQL, with continuous integration and continuous delivery automation
- Collaborated in a team to significantly improve microservices performance, testing APIs & optimize database services

FullStack Mentor | CodeSpeedy Pvt. Ltd, Kolkata

Oct'23 - Jan'24

- Authored more than 50 articles on full stack development including topics such as JavaScript, Next.js, React.js, Node.js
- Conducted thorough SEO analysis to design optimization strategies that increased more than 2% in the monthly traffic

PROJECTS

Implemented End-to-End CI/CD Automation for Containerized Java Applications

Feb'25 - Apr'25

- Engineered an end-to-end CI/CD pipeline with Jenkins, automating the compilation, testing, packaging of applications
- Integrated Sonarqube and Aqua Trivy ensuring code quality & container image vulnerability scanning within the pipeline
- Designed Terraform and Ansible scripts to provision and manage scalable AWS infrastructure for Kubernetes cluster
- Implemented comprehensive application monitoring using Prometheus for metric collection and Grafana for visualization and alerting, providing real-time insights into application performance and infrastructure health on AWS

AI-Powered Multimodal Medical Assessment Tool

Nov'24 - Dec'24

- Designed a Multimodal LLM based web application to analyze patient images & voice for medical problem identification
- Engineered an end-to-end pipeline for processing multiple data formats that delivers diagnoses through voice and text
- Implemented an intuitive user interface using Gradio for the patient to interact with their voice, images and text

Ecommerce Web Application

Feb'23 - Apr'23

- Developed a dynamic online clothing web application using Next.js and styled with Tailwind CSS, integrating Node mailer for email communication, Stripe for payment processing and JWT based user authentication and authorization
- Implemented key e-commerce features including product filtering based on price and categories, order history and summary, checkout with discount functionality, generating and downloading invoice, and the delivery tracking with email
- Utilized PostgreSQL and MongoDB for database management, cookies and local storage to handle the stripe sessions

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++, C, Golang

Frontend: React.js, Next.js, HTML, CSS, Bootstrap, WebSockets

Backend: Node.js, Express.js, Redux, Django, Flask, FastAPI, REST API, GraphQL, Postman

Databases: MongoDB, Firebase, PostgreSQL, MySQL, Redis, AWS RDS, AWS DynamoDB

Cloud Computing: AWS Cloud Services, Microsoft Azure Cloud, Google Cloud Platform

DevOps Tools: Jenkins, Terraform, Ansible, Docker, Kubernetes, Prometheus, Grafana, Linux, Git & GitHub, GitHub Actions, GitLab, Argo, Maven, Apache, Nginx, Bitbucket, Shell Scripting, Bash, Sonarqube

Artificial Intelligence: Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision & Image Processing, OpenAI APIs, Hugging Face, Langchain, UiPath Automation