Sahil Kumar Sahu

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Full Stack Developer (1+ years) specializing in end-to-end web solutions. Core expertise in modern JavaScript stacks with full proficiency in front-end, back-end, cloud deployment, and database systems. Delivered production-grade applications with optimized architecture and real-time capabilities.

Professional Experience

Software Developer Intern

Bhubaneswar, Odisha May 2024 - Nov 2024

Kyoros Tech Pvt. Ltd.

May 20

- Architected SaaS-based ICU patient monitoring platform collaborating with founders to build MVP for real-time healthcare data management
- o Optimized PostgreSQL queries with **Redis caching**, reducing API response time from 1.2s to 0.36s (70% faster)
- o Built real-time collaboration platform using WebSocket for live monitoring and Firebase Push Notifications for alerts
- o Implemented AWS S3 integration for diagnostic reports with Docker Compose deployment on Amazon EC2

Founding Engineer Intern

Aug 2023 - Jan 2024

Neuvision Technologies Pvt. Ltd.

- Developed **quick commerce platform** connecting users with nearby cloud kitchens using Flutter, Express.js, MongoDB, Next.js, GraphQL
- Optimized database schema and implemented MongoDB geospatial aggregation for location-based discovery with GraphQL for bandwidth optimization
- o Deployed to GCP Cloud Run with serverless architecture and established CI/CD pipeline using Google Cloud Build

Key Projects

Influencer Management SaaS Platform

Live Demo ☑ — GitHub ☑

— May 2025

- Built comprehensive SaaS platform for influencer discovery and outreach automation across multiple social media platforms
 Implemented AI-powered voice agent using VAPI for human-like conversations with automated email/SMS outreach via
- MailGun & Twilio
- o **Tech Stack:** React, TypeScript, Supabase, VAPI, MailGun, Twilio, Vercel

Open Channel Flow Monitoring System

Apr 2025

- Developed a patented real-time wave monitoring system using Python-based Kafka pipelines to extract wave metrics from sensor data, based on signal processing and hydrology research; deployed on on-premise college servers.
- Implemented a high frequency (10ms) data logging pipeline using Kafka Connect to integrate MQTT for sensor ingestion, InfluxDB for real-time analytics, and Amazon S3 for cost-effective long-term storage.
- o Created web-based visualization dashboard using Grafana deployed in university's Open Channel Flow Lab
- Tech Stack: Python, MQTT, Kafka, InfluxDB, Docker, Grafana, IoT (ESP32, MPU6050)

SmartHome Management System

GitHub ☑ — Aug 2023

- \circ Developed a full-stack IoT solution for real-time appliance tracking using ESP32 sensors, with predictive analytics and mobile alerts via React Native (WebSocket/Redux)
- \circ Engineered a Django backend (SQLite) for device communication, achieving 99.9% uptime in command routing and data logging
- Built an interactive dashboard using React Native Chart Kit and SVG visualizations, displaying real-time energy patterns and historical trends
- Tech Stack: Django, React Native, MQTT, WebSocket, ESP 32, REST API, Docker

Technical Skills

Proficient: React.js, Next.js, Node.js, TypeScript, Express.js, MongoDB, PostgreSQL, Git, Docker, AWS (EC2, S3)

Familiar: GraphQL, Redis, Firebase, Appwrite, Flutter, GCP (Cloud Run), Kafka, React Native

Tools: Postman, Vercel, Grafana, Prisma

Education

Bachelor of Technology in Electronics and Instrumentation CGPA: 7.87/10.0

Odisha University of Technology and Research (formerly CET, BBSR)

- Relevant Coursework: Digital Electronics, Microprocessors and Controllers, Signals and Systems, Fundamentals of Communication
- Final Year Project: Novel research on generating a new chaotic map for embedded devices and FPGA implementation using Verilog
- o Patent Project: Real-time wave monitoring system for hydrodynamics research (Open Channel Flow project)