

# Sahil Kumar Sahu

## Full Stack Developer

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### Professional Summary

Experienced **Full Stack Developer** with **1+ years** of hands-on experience building scalable web applications and SaaS platforms. Proven track record of collaborating with **startup founders** to deliver **MVPs** and production-ready solutions. Expertise in **React, Node.js, TypeScript**, and cloud technologies with strong focus on **performance optimization** and **system architecture**.

### Professional Experience

#### Software Developer Intern

Bhubaneswar, Odisha

Kyros Tech Pvt. Ltd.

May 2024 – Nov 2024

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

#### Founding Engineer Intern

Remote

Newvision Technologies Pvt. Ltd.

Aug 2023 – Jan 2024

- Developed quick commerce e-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
- 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
- Tech Stack:** React, TypeScript, Supabase, VAPI, MailGun, Twilio, Vercel

#### Open Channel Flow Monitoring System

[GitHub](#) — Dec 2024 -

Apr 2025

- Developed patented real-time wave monitoring system using MPU6050 accelerometer and ESP32 with I2C communication
- Built high-frequency (10ms) data logging system transmitting to MQTT-Kafka server with InfluxDB and Docker
- Created web-based visualization dashboard using Grafana deployed in university's Open Channel Flow Lab
- Tech Stack:** IoT (ESP32, MPU6050), MQTT, Kafka, InfluxDB, Docker, Grafana

#### SmartHome Management System

[GitHub](#) — Aug 2023

- Developed IoT-based solution for real-time appliance usage tracking with intelligent statistics and mobile notifications
- Implemented dustbin full alerts and LPG gas leakage warnings through user-friendly mobile application
- Tech Stack:** Django, React Native, MQTT, WebSocket, Arduino, REST API, Docker

### Technical Skills

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

**Familiar:** Next.js, GraphQL, Redis, Firebase, 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
- Patent Project: Real-time wave monitoring system for hydrodynamics research (Open Channel Flow project)