

SHIVSHANKAR SAHOO

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Technical Skills

- **Languages:** JavaScript, TypeScript, Python, C++, Java
- **Frontend:** ReactJS, NextJS, Tailwind, HTML, CSS, Bootstrap, Figma, ChakraUI, MUI, ShadCN
- **Backend:** NodeJS, ExpressJS, Spring Boot, Microservices, REST API, Loopback
- **Databases & Version Control:** Git, MySQL, MongoDB, Firebase, Redis, Postgres
- **Tools & Technologies:** OpenAI, Socket.io, WebRTC, EjabberD, Kafka, Metabase, Strapi, ClickHouse, BolnaAI
- **Deployment:** Vercel, Docker, PM2, Jenkins (basic), CI/CD pipelines

Work Experience

HNAK, Bangalore (via Octaware Technologies)

June 2023 - Present

Software Engineer

- Led the integration of **OpenAI's GPT** models to automate end-to-end product content generation from raw Oracle data, resulting in an **80%** reduction in manual effort and significantly accelerating product onboarding by **3×** through AI-driven scalability and consistency across multiple channels.
- Led the development of a centralized admin panel using **Node.js**, **Next.js**, and **Tailwind**, unifying operations across 4 e-commerce storefronts. Improved internal efficiency by **40%**, boosted cross-team collaboration by **50%**, and cut redundant workflows by **60%**, accelerating feature delivery and scaling operations seamlessly.
- Implemented **Kafka** based cron jobs to automate campaign workflows for offer, delivery, and coupon notifications across email and WhatsApp achieving **99.9%** delivery reliability and processing over **100,000 messages** monthly.
- **Optimized frontend performance** by reducing the **bundle size from 12MB to 2MB**, resulting in a **70%** decrease in load times, significantly improving user retention and satisfaction.
- Led the development of a **high-impact reviews system**, boosting user-generated content **3×** and driving a **12%** increase in conversions through enhanced customer trust.
- Designed and implemented scalable webhook solutions using **Nginx**, **AWS Lambda**, and **Redis**, achieving **100%** real-time delivery reliability for over **1 million API calls/day**. Reduced message delivery latency by **65%** and cut failure rates from 3% to 0%, ensuring robust, event-driven communication at scale.
- Built multi-channel campaign **features (SMS, Email, WhatsApp, Voice)** successfully converting captured leads into customers for numerous clients drove a **25%** increase in customer acquisition rates for clients.
- Built a high-performance **user segmentation** system using **Node.js** worker threads and **deduplication**, boosting processing speed by **60%** and enabling real-time, event-based targeting..

JP Morgan Chase

March 2023 - June 2023

Cyber Security - Internship

- Contributed to threat detection and secure coding in a high-stakes financial environment, achieving a **95%** alert accuracy rate and reducing security review cycles by **30%**.

Education

Biju Patnaik University of Technology (BPUT)

Aug 2018 – Aug 2022

Bachelor of Technology in Computer Science Engineering

CGPA: 8.25 / 10

Studied at Gandhi Institute for Technology (GIFT), Bhubaneswar

Projects

- **Full-Stack Admin Panel for Multi-Channel E-Commerce** [\[Live Link\]](#) Next.js, Node.js, Tailwind, MongoDB, Kafka
Built a centralized admin panel for managing product content, inventory, and offers across four e-commerce channels: B2B, HNAK, Shababuna, and Sensi. Enhanced the UI for intuitive access, reducing friction for non-technical users. Standardized multi-channel logic, reducing manual effort by **60%**, improving operational speed by **40%**, and significantly decreasing content and site team workload through shared automation and unified control.
- **Notion-style Workspace UI Clone** [\[Live Link\]](#) ReactJS, Tailwind CSS
Cloned the responsive frontend of the Notion workspace with block-based editing, markdown support, and drag-and-drop functionality using ReactJS and Tailwind CSS.

Certifications

- **Java Full Stack Development** JSPiders (2022)
Hands-on training in Java, Spring Boot, REST APIs, MySQL, and frontend development with ReactJS and Bootstrap.
- **AWS - Amazon Web Services** Udemy (2024)
Gained practical knowledge in core AWS services including EC2, S3, Lambda, and IAM with real-world deployment workflows.
- **J.P. Morgan Software Engineering Program** (2025)
Engineered scalable backend solutions using Java, Spring, Kafka, Maven, REST APIs, and SQL, with a strong focus on system performance, reliability, and real-world application design.