

TRILOCHANA SATAPATHY

Senior Software Engineer

📍 Bhubaneswar, Odisha, India 751002

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Professional Summary

Senior Software Engineer with 8+ years of experience building scalable web applications, backend systems, and data-intensive platforms. Strong full-stack foundation in **Next.js, React, Node.js, and PostgreSQL**, with recent specialization in **Python, FastAPI, Neo4j, and data engineering**. Experienced in designing APIs, optimizing databases, building data ingestion pipelines, and deploying production systems with Docker and cloud platforms.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python 3.11, SQL

Frontend: React, Next.js 14 (App Router), Redux, Tailwind CSS, HTML5, SCSS

Backend: Node.js, Express, FastAPI, PostgreSQL, Redis, Neo4j, REST APIs

Data Engineering: Neo4j/Cypher, PostgreSQL, Pandas, Pandera, Pydantic, data ingestion, pipeline automation

AI & APIs: OpenAI API, httpx, BeautifulSoup, lxml

Cloud & DevOps: AWS (EC2, Lambda, CloudFront, S3, Route53), Docker, Railway, Vercel, GitHub Actions

Tools: Git, GitHub, Jira, Postman, Streamlit, Stripe/Payment Integrations

Experience

Tracn Inc. - Delaware, USA

July 2026 – Present

Data Engineer

Remote / Bhubaneswar

- Architect and maintain the company's **data engineering platform** (Python, FastAPI, PostgreSQL, Neo4j) powering ingestion, storage, and retrieval of heterogeneous, graph-structured data.
- Build **ingestion and transformation pipelines** that normalize data from APIs, structured sources, and web-based acquisition into a consistent, queryable format.
- Enforce **data quality with Pandera/Pydantic-based validation**, along with provenance and audit trails that trace every record back to its source.
- Ship internal **Streamlit tools** for pipeline operations, data review, and QA, streamlining day-to-day operational workflows.
- Cover ingestion workflows with **offline, fixture-based automated tests**, removing reliance on live external sources during development.
- Containerize and deploy services with **Docker on Railway** for repeatable, maintainable production releases.

Mentibus Inc. San Francisco, CA, USA

January 2026 – June 2026

Fullstack Engineer

Remote / Bhubaneswar

- Built and maintained full-stack applications using **Next.js, TypeScript, Node.js, and PostgreSQL**, continuing the architecture and development patterns established at Yadara.
- Developed responsive frontend features and backend APIs using **Next.js and TypeScript**, with PostgreSQL as the primary data layer.
- Designed and optimized database queries and application data flows for production features.
- Worked across the full application stack, from **UI and API development to database design and deployment**.
- Contributed to production systems through feature development, debugging, code reviews, and technical improvements.
- Company acquired by **Tracn Inc.** in June 2026.

Yadara LLC - Austin, TX, USA

August 2024 – December 2025

Senior Fullstack Engineer

Remote / Bhubaneswar

- Maintained a high-traffic ticket marketplace using **Next.js 14, Node.js, PostgreSQL, OpenSearch, and AWS**. Integrated new features.
- Set up **OpenSearch** to index 70,000+ event pages with geolocation-based search, improving result relevance and reducing load times by **40%**.
- Optimized slow SQL queries and added proper indexes, cutting query execution time by **55%** for reporting dashboards.
- Migrated frontend components to **Next.js Server Components**, improving Google PageSpeed scores from **50 to 80+** and making development **25% faster**.
- Deployed Dockerized microservices on **AWS EC2** with Load Balancers.
- Integrated real-time inventory syncing with **VividSeats, StubHub Intl, and HelloTickets** to keep seat availability accurate.

- Created custom **SVG seat maps** for venues without third-party maps, improving user experience and conversion rates.
- Led code reviews, sprint planning, and mentored junior developers on TypeScript best practices and testing.

Abtris Consulting and Labs

December 2018 – July 2024

Fullstack Developer

Bhubaneswar, Odisha

- Built and maintained production web applications using **Next.js, Gatsby, React, Node.js, PostgreSQL, and AWS** across multiple client and internal projects.
- Developed high-performance and SEO-focused applications, achieving improvements of up to **50% in page load times** and **30% in organic search performance**.
- Built data-driven admin dashboards and content management systems using **React, PostgreSQL, Supabase, Firebase, and BigQuery**, including applications handling **10,000+ content items**.

Ethnic Republic

June 2017 – November 2018

Web Developer and Admin

Bhubaneswar, India

- Built and maintained e-commerce applications using **OpenCart, WordPress, and React**, including **PayPal and PayUMoney** payment integrations.
- Migrated the storefront from OpenCart to a **React-based application**, implementing Redux/Context API state management and server-side rendering with a focus on performance and SEO.

Featured Projects

Unstoppable: Mindset Builder — *Next.js, Node.js, PostgreSQL, BigQuery*

2021 – 2023

- Architected a motivational content platform serving **10,000+ quotes**, with an admin panel and bulk CSV/JSON workflows; reduced initial load time by **1.5 seconds**.

Reading Bharat Online Library — *Gatsby, Next.js, AWS Lambda*

2020 – 2021

- Built a multilingual digital library with **Gatsby, Next.js, PDF.js, and AWS**; optimized static generation and SEO, driving a **30% increase in organic traffic**.

Data Ingestion & Knowledge Graph Pipeline (Personal Prototype) — *Python, Neo4j, PostgreSQL, FastAPI*

2026

- Self-initiated prototype that ingests and normalizes multi-source data into a **Neo4j knowledge graph**, with PostgreSQL-backed validation and source-level provenance.
- Proved out the design with offline-fixture testing and a lightweight Streamlit review UI; the architecture was later adopted as the foundation of **Tracn Inc.**'s production data engineering platform.

Education

College of Engineering and Technology (OUTR)

June 2018

M.Sc in Applied Chemistry

Bhubaneswar, Odisha