Sarthak Sarangi

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Education

Institute of Technical Education and Research, Bhubaneswar **2020 - 2024**
Bachelor of Technology in Computer Science and Engineering *CGPA: 8.8/10.0*

Experience

Software Engineer **Aug 2024 – Present**
Ericsson *Kolkata, IN*

- Architected and optimized complex **PL/SQL procedures and packages** for legacy supply chain platform serving **1,000+ internal users**, improving data accuracy by **40%** and system performance by **60%**.
- Developed scalable XML parsing algorithms to convert **CLOB inputs** into structured relational data with comprehensive business rule validation, reducing processing errors by **85%**.
- Refactored critical SQL queries and eliminated redundant operations, achieving **30-50% improvement** in report generation times for enterprise-level operations.

DevSecOps Intern **Jan 2024 – July 2024**
Ericsson *Kolkata, IN*

- Led end-to-end development of enterprise Meal Booking Application using **Node.js**, **Express.js**, **PostgreSQL**, and **Prisma ORM** with secure **JWT**-based RBAC supporting 3 user roles.
- Designed scalable microservices architecture and RESTful APIs with comprehensive data validation, achieving **99.9% uptime** and supporting concurrent user load testing.
- Built responsive React frontends with **TypeScript** and **TanStack Query**, implementing efficient caching strategies that reduced API calls by **40%**.

Projects

Blogify | *React, TypeScript, Hono, Cloudflare Workers, PostgreSQL* **Jan 2025 - April 2025**

- Built full-stack blogging platform using **React (TypeScript)** and **Hono** on **Cloudflare Workers** with serverless architecture, implementing **JWT authentication** and complete CRUD operations supporting **multiple concurrent users**.
- Integrated **Tiptap rich text editor** for enhanced writing experience and **Cloudinary** for optimized image upload with automatic compression, reducing image sizes by **60-80%** compared to original uploads.

MockPay | *MERN Stack, JWT, MongoDB, React* **June 2024 - Aug 2024**

- Developed secure peer-to-peer payment application using **MERN stack** with **JWT authentication**, **bcrypt password hashing**, and real-time transaction processing for **3 user roles** (Admin, User, Vendor).
- Implemented dynamic user search functionality with **MongoDB indexing** and built responsive wallet management system with transaction history, supporting transfers between **50+ test user accounts**.

Keyword Extractor | *React, OpenAI API, Chakra UI* **March 2024 - April 2024**

- Built React.js application integrating **OpenAI API** for intelligent keyword extraction, implementing custom prompt engineering to extract **5-15 relevant keywords** from text inputs with contextual accuracy.
- Designed responsive user interface using **Chakra UI** with real-time text processing capabilities, handling documents up to **2,000 words** with efficient API call management and error handling.

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C++, SQL (PostgreSQL, MySQL), PL/SQL
Frontend: React.js, HTML5/CSS3, Tailwind CSS, Bootstrap, Responsive Design
Backend: Node.js, Express.js, Hono, RESTful APIs, Microservices, JWT Authentication
Databases: PostgreSQL, MongoDB, Oracle Database, Prisma ORM
Cloud & DevOps: Cloudflare Workers, Nginx, Docker, Git, CI/CD, Vercel
Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, Operation Systems

Achievements & Certifications

Problem Solving: 450+ LeetCode Problems Solved (Top 15%), HackerRank SQL 5-Star Rating
Certifications: Oracle SQL Certification (Udemy), Full Stack Web Development Bootcamp, Data Structures & Algorithms (Apna College)
Open Source: Active contributor to Neetcode.io