

Subha Biswal

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⌚ 20SB

Summary

Full Stack Web Developer with **1+ years** of hands-on experience in building, and deploying **scalable, high-performance applications**. Proficient in **MERN stack, TypeScript, PostgreSQL**, and cloud platforms like **AWS**. Expertise in building **RESTful and GraphQL APIs, microservices architecture, real-time applications, and testing**. Successfully optimized platform performance, **enhancing scalability by 40%** and **reducing operational costs by 60%**. Dedicated to **efficient code practices, performance tuning, and cloud-native solutions**.

Experience

Full Stack Web Developer Intern

Wasserstoff

Sep 2024 – Present

Gurgaon, Haryana

- Engineered and deployed microservices-based REST APIs with Node.js (TypeScript), PostgreSQL, and Drizzle ORM, achieving 95% test coverage with Jest.
- Implemented Puppeteer-based automated testing, cutting manual QA efforts by 40% and accelerating release cycles.
- Optimized API response times by 30% through indexing, caching strategies, and query enhancements.
- Designed robust authentication mechanisms with JWT, OAuth, and role-based access control (RBAC) to fortify system security.

Full Stack Web Developer Intern

Daya Consultancy Services

Oct 2023 – Aug 2024

Bhubaneswar, Odisha

- Spearheaded full-stack development for 3+ enterprise applications (E-Learning, ATS, Employee Management), enhancing user engagement by 30% and lessening admin workload by 40%.
- Integrated payment gateways (Razorpay, PhonePe), increasing transaction success rates by 25%.
- Deployed applications on AWS EC2, S3, and cPanel, ensuring 99.9% uptime.
- Implemented WebSocket-based real-time notifications and chat features, improving user engagement and interactivity.
- Orchestrated project oversight, achieving a 100% success rate with zero defects and delivering all milestones ahead of schedule.

Practice Projects

Chit-Chaat - Real-Time Communication Platform

20SB/mern-chat-app ↗

- Built a real-time chat & video conferencing app using WebSocket, WebRTC, and JWT authentication, trimming unauthorized access by 30%.
- Embedded an AI-driven text refinement engine that dynamically reconfigures user inputs and facilitates interactive AI chat, elevating communication clarity and engagement.
- Leveraged AWS S3 for scalable file storage and Chakra UI for an intuitive user experience, improving retention by 20%.
- Tech Stack: MERN, WebSocket, WebRTC, Chakra UI, AWS S3, Redis.

RecipeFinder - AI-Powered Recipe Discovery Engine

20SB/recipe-finder ↗

- Constructed a GraphQL-powered AI recipe discovery platform, optimizing query response times by 40%.
- Integrated Gemini API for intelligent recipe suggestions, catering to 10k+ monthly users.
- Developed Next.js frontend with Shadcn UI and Tailwind CSS, ensuring a mobile-first, responsive UI.
- Tech Stack: Node.js, Next.js, PostgreSQL, GraphQL, TypeScript, Gemini AI, Tailwind CSS.

Professional Projects

Astrix – Community Building Platform

Nov 2024 – Present

Wasserstoff

- Architected 50+ robust API endpoints by restructuring over 50 interconnected database tables, boosting query efficiency by 35%.
- Devised comprehensive unit test suites using Jest and automated frontend validation flows with Puppeteer, shrinking development errors by 25%.
- Enhanced code quality through iterative refactoring and rigorous code reviews, streamlining API calls and database interactions to improve maintainability by 25%.

Application Tracking System (ATS)

Feb 2024 – Aug 2024

Daya Consultancy Services

- Constructed a modular backend framework using RESTful services, WebSocket, and Redis, enabling real-time applicant tracking and truncating system latency by 40%.
- Elevated frontend performance by crafting reusable React components and incorporating Redux for efficient state management, improving UI responsiveness by 20%
- Leveraged AWS EC2 and S3 to deploy development builds, enabling scalable environments for efficient feature validation and rapid testing.

Employee Management System

Dec 2023 – Feb 2024

Daya Consultancy Services

- Synthesized a robust backend system integrating 20+ modular services for work tracking, leave management, and notifications, ensuring 100% data integrity.
- Reconfigured and consolidated 40+ database tables to enhance real-time data synchronization and overall system performance.
- Implemented secure API gateways alongside rigorous unit tests, achieving a 25% improvement in processing efficiency during development cycles.

Steps of Learning Process – eLearning Platform

Oct 2023 – Dec 2023

Daya Consultancy Services

- Established a scalable backend infrastructure to manage multi-user interactions for 5,000+ courses, increasing system throughput by 40%.
- Orchestrated the integration of course management, exam scheduling, and pricing modules across 30+ services, diminishing processing delays by 35%.
- Revamped data pipelines by restructuring 25+ database tables, accelerating content updates and boosting performance by 20%.

Education

Veer Surendra Sai University of Technology, Sambalpur, Odisha

Jul 2017 – Jun 2022

Dual Degree (B.Tech + M.Tech) in Electrical Engineering

CGPA: (8.05, 8.96)/10

Technical Skills

Languages: SQL, JavaScript, TypeScript

Frontend: React.js, Next.js, Redux, HTML, CSS, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, GraphQL, WebSocket, Microservices, Redis

Databases: MongoDB, SQL

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD

Testing: Jest, Puppeteer

Tools & Platforms: Git, Postman, cPanel