Subha Biswal

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Summary

Full Stack Developer with **2+ years of experience** architecting and delivering scalable, production-grade web applications and AI-driven platforms. Expertise in **MERN**, **PostgreSQL**, **Next.js/TypeScript**, and cloud platforms **AWS** and **GCP**. Owned and led the design, development, and delivery of **3 successful production-grade products**.

Experience

ShelfEx   Mar 2025 – Present
Senior Software Developer   *Gurgaon, Haryana*
- **Directed** the implementation of **ShelfScan**, **ShelfMuse**, and **ShelfZone**—AI-integrated platforms for product recognition, analytics, and merchandising intelligence—achieving **95% detection accuracy** and sub-**2s inference latency** through optimized **data pipelines**, **indexing**, and **cache management**.
- **Established** container-based **service architectures** for multi-product workloads using **Docker** and **GCP Cloud Run**, shortening **build-to-deploy timelines** by **40%** across the ShelfEx ecosystem.
- **Engineered** high-throughput **PostgreSQL data models** and execution plans supporting ShelfScan, ShelfMuse, and ShelfZone, lowering **query latency** by **25%** under large-scale transactional and analytical workloads.

Wasserstoff   Sep 2024 – Mar 2025
Full Stack Web Developer Intern   *Gurgaon, Haryana*
- **Implemented** modular **Node.js (TypeScript)** backend services using **Drizzle ORM** and **PostgreSQL**, reaching **95% unit coverage** through **Jest**-driven test suites.
- **Orchestrated** browser-level **test automation** with **Puppeteer**, cutting repetitive QA effort by **40%**.
- **Refined** backend throughput by applying **query tuning**, **index strategies**, and **response caching**, yielding a **30% performance gain**.

Daya Consultancy Services   Oct 2023 – Aug 2024
Full Stack Web Developer Intern   *Bhubaneswar, Odisha*
- **Delivered** multiple business applications (**E-Learning**, **ATS**, **Analytics Dashboards**), increasing platform engagement by **30%**, secure digital transactions through **Razorpay** and **PhonePe**.

Projects

ShelfScan | *Product Ownership, Full Stack, System Design, PostgreSQL, React.js, Node.js*
- Built and scaled a full-stack enterprise platform end-to-end, owning system design (HLD/LLD), service orchestration, and optimized relational data models for high-throughput workloads.
- Enabled adoption by **700+ active users** with **15K daily visits**, delivering streamlined store task execution and real-time AI-driven product recognition across distributed retail locations.

ShelfMuse | *Product Ownership, Drag-and-Drop UI, AI Planogramming*
- Led the design and delivery of an AI-assisted planogram creation platform, combining intuitive drag-and-drop editing with intelligent planogram generation to simplify merchandising workflows.

ShelfZone | *Product Leadership, Backend Systems, Internal Tools*
- Owned development of an internal HRMS portal for the ShelfEx ecosystem, streamlining employee management, access control, and operational workflows through centralized backend services.

Astrix | *API Development, Jest, Puppeteer, Database Optimization*
- Redesigned backend architecture by restructuring **50+ relational tables**, delivering **50+ secure APIs**, and implementing automated testing with **Jest** and **Puppeteer**, resulting in **35% faster query execution** and a **25% reduction in defects**.

Education

Veer Surendra Sai University of Technology   Jul 2017 – Jun 2022
Dual Degree (B.Tech + M.Tech) in Electrical Engineering (GPA: 8.05,8.96 / 10)   *Sambalpur, Odisha*

Technical Skills

Languages: JavaScript, TypeScript, SQL
Frontend: React.js, Next.js, Redux, HTML, CSS, Tailwind CSS
Backend: Node.js, Express.js, GraphQL, WebSocket, Microservices, Docker
Databases: PostgreSQL, MongoDB
Cloud & DevOps: GCP (Cloud Run, VM), AWS (EC2, S3), cPanel, Docker, CI/CD
Testing & Tools: Jest, Puppeteer, Git, Postman