Badsha Laskar
Senior Software Engineer (Full Stack)

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Senior Full Stack Software Engineer with 4+ years of experience building scalable, production-grade web applications for international clients. Specialized in React, Node.js, PostgreSQL, and AI-driven systems, with strong ownership of backend architecture, CI/CD pipelines, and containerized deployments. Proven ability to optimize performance, improve reliability, and deliver end-to-end solutions across the full software development lifecycle.

SKILLS

Core Engineering
- Full-stack development (React, Node.js, FastAPI, Next.js, Vue.js)
- Backend system design & REST API architecture
- Database design & performance optimization (PostgreSQL, MongoDB)

DevOps & Delivery
- CI/CD pipelines (GitHub Actions)
- Docker & containerized deployments
- Production monitoring & debugging

AI & Advanced Systems
- Vector databases & RAG pipelines
- LangChain & agent-based workflows
- Performance optimization for AI systems

EXPERIENCE

Senior Software Engineer (Full stack)   **March 2022 - Present**
Zensar Technologies ltd.   Pune, India
- Owned end-to-end development of scalable full-stack applications for **UK & US enterprise clients**, contributing to features used by **thousands of users across production environments**.
- Designed and implemented **React-based frontend architectures**, improving perceived UI performance by **~25%** through optimized state management and rendering strategies.
- Architected and deployed **containerized Node.js services using Docker**, reducing deployment and environment setup time by **40%** across dev and production.
- Built and secured **authentication & authorization systems (JWT, RBAC)**, cutting login-related incidents by **50%** and strengthening application security.
- Led CI/CD automation using **GitHub Actions**, enabling faster releases (**30% shorter cycles**) and increasing test coverage to **~90%**.
- Designed and implemented **AI-driven backend workflows** using vector databases and LangChain, accelerating internal feature prototyping by **35%**.
- Optimized backend data pipelines with **streaming and pooling techniques**, reducing AI-related data-processing latency by **45%**.
- Acted as **technical owner** for an internal analytics dashboard, collaborating with cross-functional teams to improve debugging and error visibility by **60%**.
- **Mentored junior developers** and conducted **code reviews** to maintain code quality and delivery standards.

SYSTEM DESIGN & ARCHITECTURE EXPERIENCE

- Designed scalable REST API architectures supporting authentication, authorization, and data-intensive workflows.
- Implemented role-based access control (RBAC) and secure JWT-based authentication for production systems.
- Designed containerized backend services with environment parity across development, staging, and production.

- Optimized PostgreSQL schemas, indexing strategies, and query performance for high-throughput applications.
- Designed AI-enhanced systems using vector databases, retrieval-augmented generation (RAG), and streaming.

CLOUD & DEPLOYMENT EXPERIENCE

- Deployed and managed containerized backend services on **Google Cloud Platform (GCP)** and **Microsoft Azure**, supporting production and demo environments.
- Configured application deployments using **Docker**, environment variables, and secure secrets management.
- Used **Render** for PaaS-based deployments to quickly provision and validate production-ready services.
- Managed multi-environment setups (development, staging, production) and monitored application stability and performance.

PROJECTS

AI Note & Board Question format Generator   [Live Demo](#)
- Built a **production-ready AI application** featuring secure authentication, scalable PostgreSQL storage, and **RAG-based retrieval** pipelines.
- Architected CI/CD and containerized deployment, simulating **real-world SaaS delivery workflows**.
- Built an interactive, high-performance application using Python FastAPI following clean architecture patterns with a **React (TanStack Query)** frontend and **FastAPI** Backend.

React Native Mobile Writing App for Professional Writers   [Live Demo](#)
- Designed and built a visually appealing, distraction-free writing app with **React Native** and **NativeWind**, delivering a smooth, responsive experience for both professional and beginner writers.
- Implemented PostgreSQL-based local data management and a Next.js **SSR** backend, enabling reliable offline/online sync, high performance, and optimized content rendering.

Shortest Path Algorithm Visualizer   [Live Demo](#)
- Built an interactive, visually appealing user interface using **Next.js** and **DaisyUI** to demonstrate algorithm behavior in real time.
- Implemented and showcased key pathfinding algorithms including **DFS, BFS, Dijkstra**, and A*, enabling users to visualize and compare shortest-path detection.

EDUCATION

Techno India University, Kolkata, India
Bachelors of Technology in Computer Science and Engineering