Sibanarayan Choudhury

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Technical Skills

Programming Languages: Java, C#, JavaScript, TypeScript
AI / Automation: Agentic Workflows, LLM Orchestration (Anthropic/OpenAI SDKs), Context Management
Backend: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, .NET, Node.js, Express.js
Databases: SQL, PostgreSQL, MongoDB, Oracle Database
Messaging, Cloud & DevOps: Kafka, RabbitMQ, AWS, Azure, Docker, Kubernetes, Terraform
Frontend: React.js, Next.js, HTML, CSS

Work Experience

Associate Software Engineer Jan 2025 - Present
Capsitech *Jodhpur, Rajasthan*

***Acting Office**: SaaS financial platform providing bookkeeping, accounting, taxation, and CRM solutions.*

- Architected a high-throughput **data ingestion pipeline** in **Java**, integrating **RabbitMQ and multi-threading** to **reduce processing time by 90%**.
- Developed and optimized **Spring Boot** REST APIs for read-heavy features, implementing caching to **reduce database reads by 60%** and **improve API response time by 40%.**
- Contributed to the end-to-end development of an **Audit Management Module** using **Spring Boot and React** for a SaaS financial platform, delivering it **within 4 months** and improving business value and customer interest.
- Implemented **Azure Queue** based bulk EPS submission ∼**4000 client monthly**, accelerating compliance processing while significantly reducing manual intervention.
- **Redesigned the database schema and query**, resulting in **30% faster** response times for dynamically fetched data.
- Streamlined document editing by integrating **WOPI and WebDAV protocols**, enabling direct Microsoft Office editing and saving,reducing document **handling time by 30%.**
- Collaborated with teams to resolve **50+ high priority bugs**, enhancing system stability and reducing critical failures.

Projects

HiiCoders | Spring Boot, PostgreSQL, Cloudinary, Kafka, Docker, Terraform, AWS, WebSocket, React
- Architected a **microservices-base**d code execution platform, isolating high-latency execution workloads from core API services to enable independent scaling and prevent resource-intensive submissions from impacting user-facing request latency.
- Implemented **distroless docker image**, stripping unnecessary OS packages and dependencies, **reducing the container size by 70%**, improving storage efficiency.
- Automated **AWS** infrastructure provisioning using **Terraform**, replacing manual infrastructure configuration with reproducible infrastructure-as-code workflows, **reducing configuration errors**.

Pixhunt | Spring Boot, PostgreSQL, Cloudinary, React
- Architected an AI-powered image platform using Gemini Vision and SSE streaming, automating metadata **generation by 80%**, enforcing strict **NSFW moderation** guards, and cutting visual analysis **latency to** ∼**400ms**.
- Developed image engagement APIs (likes, saves, comments) using **QueryDSL** for dynamic querying, and added global exception handling to stop crashes and return consistent error messages.

AgentForge | Anthropic SDK, OpenAI SDK, TypeScript, CLI Agent, Agent loop
- Architected a **fault-tolerant agentic execution loop** for a TypeScript CLI using **Anthropic and OpenAI SDKs**, featuring configurable turn limits and automated retry logic.
- Engineered a secure **Bash-driven tool** for **automated filesystem operations**, allowing natural-language instructions to directly execute, create, and modify project structures.

Education

Biju Patnaik University of Technology (BPUT) Odisha, India
Bachelor of Technology in Computer Science *Nov 2021 - May 2025*
- CGPA: 8.0/10