

SIBSANKAR DE

Software Developer

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SUMMARY

Full Stack Developer with hands-on internship experience building Spring Boot REST APIs at Pinggy.io and deploying production systems on AWS. Built and shipped three end-to-end projects spanning distributed messaging, real-time WebSocket systems, and AI-driven LLM pipelines. Core stack: Java · Spring Boot · Next.js · Node.js · PostgreSQL · MongoDB · Docker. Targeting SDE Intern roles where I can contribute to backend systems and scalable architecture.

WORK EXPERIENCE

Pinggy.io

Oct 2025 – May 2026

Software Developer Intern

Remote

- Designed and built RESTful APIs in Spring Boot serving 10K+ users; maintained sub-200ms average response time under concurrent load.
- Cut PostgreSQL query latency by ~35% through targeted indexing and query restructuring on high-traffic read paths.
- Built Python automation scripts for web scraping (100+ pages/day), newsletter dispatch (1K+ sends/run), and AI-assisted article generation - eliminating manual content workflows entirely.
- Deployed and managed backend services on AWS (EC2 + RDS) in a distributed team; configured automated deployment pipelines reducing release time by ~50%, improving release confidence across the team.

PROJECTS

EaseInv - [Source Code](#) | Next.js, Node.js, AWS, RabbitMQ, Elasticsearch

- Designed and deployed a multi-tenant POS system on AWS handling both online and offline store operations - inventory, invoicing, and customer workflows.
- Built a role-based access control (RBAC) system supporting granular per-operation permissions across multiple collaborating users.
- Architected a microservices backend with API key auth, enabling clean third-party integrations and plugin extensibility.
- Set up RabbitMQ-based async event processing to decouple critical workflows; system sustained concurrent operations without message loss.
- Tuned Elasticsearch for data retrieval and analytics; benchmarked to handle 1K+ concurrent API requests with consistent low-latency responses.

Quronest - [Preview](#) | Next.js, MongoDB, Langchain, Docker, WebSocket, Redis

- Built an AI learning platform that generates personalized courses and assessments using LLM pipelines built with LangChain.
- Engineered structured context management for multi-turn LLM interactions, ensuring coherent and adaptive session continuity.
- Designed feedback loops that feed user evaluation results back into prompt context to progressively improve output quality.
- Developed real-time content generation and evaluation workflows with WebSocket-based delivery and Redis caching for response speed.

ScribbleText - [Preview](#) | React.js, Node.js, MongoDB, Web Socket, RabbitMQ

- Built a real-time chat system with WebSocket-based bidirectional communication, measured at <100ms message round-trip under normal load.
- Designed RabbitMQ-backed event-driven messaging to decouple send/receive paths and ensure delivery reliability at scale.
- Load tested with 100+ concurrent users; architecture designed to scale to 1K+ concurrent sessions with no message loss or connection drops.

EDUCATION

Jalpaiguri Government Engineering College

Jalpaiguri

B.Tech in Information Technology | GPA 8.5

Aug 2024 – Jun 2028

SKILLS

Languages: Java, Python, TypeScript, C++, C, SQL

Frameworks & Databases: Spring Boot, Next.js, Node.js, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

DevOps & Cloud: AWS (EC2, RDS, S3), Git, Docker, Kubernetes, RabbitMQ

Core CS: Data Structures & Algorithms, System Design, Distributed Systems, OOP, OS, Networking

AWARDS & ACHIEVEMENTS

- Runner-Up, JWOC 2026 - open source challenge among national participants
- 1st Place, Hackwars 2025 hackathon - outperformed multiple competing teams
- 300+ problems solved on LeetCode; active competitive programmer