Subrat Bera

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Bengaluru, Karnataka, India - 560035

Education

2018 - 2022	*B.Tech* in **Computer Science and Engineering, Presidency University**
CGPA	**7.94**/10.0

Experience

Mar '2025 Present — **Software Development Engineer - 1** — **Mitigata**

ITSM

– Currently developing **core ITSM backend services**, including **CMDB and ITAM**, modeling asset relationships, dependencies, and lifecycle states for impact analysis.

– Implementing **change tracking and audit logging** across configuration items to ensure traceability and compliance.

Workforce Risk

– Built a **real-time Workforce Risk system** integrating **Google Drive APIs and webhooks**, detecting externally shared files with <**1-minute latency**.

– Eliminated partial and inconsistent data states using **synchronized, time-window–validated webhook processing**, achieving **100% event consistency** under concurrent operations.

Consent Manager

– Collaborated with backend engineers to design a **reliable consent delivery pipeline**, storing consent events in **AWS SQS** and asynchronously delivering payloads to **client-provided webhook APIs**.

– Implemented **Spring Retry with exponential backoff (1s, 2s, 4s)** to handle transient failures, ensuring high delivery reliability.

VAPT

– Developed a **VAPT module** with admin-driven vulnerability uploads, per-vulnerability chat, and email notifications, reducing remediation response time by ∼**40%**.

SOC Monitoring

– Led **V1 to V2 migration** of the SOC monitoring backend, refactoring storage of **dark web–sourced credential leak records** from a single nested MongoDB document to a normalized, collection-based model.

– Eliminated unbounded **GET responses returning full nested breach lists** (up to ∼100K records for some clients) via **pagination and indexed search**.

Sep '2022 Dec '2024 — **Software Engineer: GE Aerospace** — **Wissen Infotech**

– Executed the integration of a **Kafka DLQ** that stored failed messages in **AWS S3** for in-depth analysis, enhancing overall system reliability and **achieving a 30% decrease in error rates** across applications.

– Configured **Keycloak OAuth 2.0** for secure **Single Sign-On (SSO),** enhance user management and authentication with secure, token-based access, streamlining the login process.

– Created a fully automated **Jenkins CI pipeline with Maven, Docker, and Argo CD**, optimizing the software delivery process for 2 major applications; this initiative has led to a **50% reduction in manual deployment tasks.**

– Built **Docker images** for Spring Boot applications using multi-stage Docker builds to **optimize image size** and **improve startup time**.

– Leveraged **Hibernate** to streamline data interactions with **MySQL** and fine-tuned HikariCP's minimum idle connections, leading to improved data retrieval efficiency and a **10% reduction in application startup time**.

Projects

- **Synnove** — React, Spring Boot, LangChain, DeepSeek, Docker, GCP

  – Built an **AI-driven news personalization platform** that ingests news articles and generates **concise, user-tailored summaries** using **DeepSeek** via **LangChain**, improving content relevance and reducing information overload.

  – Deployed the **Spring Boot backend on Google Cloud Run** using Docker for serverless scaling, while hosting the **React frontend on Cloud Storage** backed by **Cloud CDN**, enabling low-latency global delivery and cost-efficient infrastructure.

Skills

Languages	Java | C++ | Python | SQL
Frameworks	Spring Boot | FastAPI
Databases	MySQL | PostgreSQL | MongoDB
Other	AWS | GCP | Kafka | Redis | Keycloak | Docker | Kubernetes | Argo | Microservices

Certifications

- **AWS Certified Cloud Practitioner** — Foundational knowledge of **AWS services**, pricing, security, and cloud architecture.

- **AWS Certified Solutions Architect – Associate** — Validated expertise in designing **secure, scalable, and cost-optimized architectures** on AWS.