

Ramsundar Swaminathan

Software Engineer

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SUMMARY

Backend Engineer with 2 years of experience in **Java** and **Spring Boot**. Skilled in **microservices**, **SQL optimization**, and enterprise databases (**PostgreSQL**, **Snowflake**). Delivered solutions that reduced manual effort by 90%, cut query costs by 10%, and accelerated defect resolution by 40%. Strong in debugging production issues, collaborating with teams, and improving performance, cost efficiency, and system reliability.

SKILLS

Java	Spring Boot	Microservices	Spring Security	JPA
Hibernate	RESTful APIs	Swagger	JWT Authentication	RabbitMQ
PostgreSQL	MySQL	Snowflake	Azure Blob Storage	Git
GitHub Actions	Jenkins	SonarQube	Maven	Gradle
JUnit	Mockito	Postman	SDLC	Agile (Scrum)
HTML	JSON	XML	JIRA	Python
IntelliJ	Eclipse	DSA	RDBMS	OOPs

EXPERIENCE

Software Engineer 1 – Backend | NIQ, Chennai | Jul 2023 – Present

- Refined a **Java** system for dynamic **SQL** query generation, boosting accuracy and scalability.
- Streamlined **SQL** execution with **CTEs**, cutting runtime by 5–10% and lowering costs.
- Created a **Spring Boot** microservice with **PostgreSQL** endpoints, accelerating defect resolution time by 40% with automated regression testing.
- Designed **REST APIs** for **Snowflake** using **JDBC** and **Caffeine caching**, minimizing redundant runs and boosting response time.
- Integrated **Azure Blob Storage**, enhancing system reliability and performance.
- Scripted **VM** validations and **CSV** generation in **Python**, eliminating 90% of manual effort.
- Enhanced the **DevOps** pipeline with **SonarQube** coverage checks and builds via **GitHub Actions** and **Jenkins**.
- Addressed 20+ production issues through cross-functional collaboration, ensuring minimal downtime.

Software Engineer Intern | NIQ, Chennai | Feb 2023 – May 2023

- Boosted unit test coverage by 12% in a 100k+ **LOC** codebase, improving reliability.
- Scripted **SQL** formula generation, enhancing report accuracy.
- Contributed to backend systems and relational databases in a **microservices** environment.

PROJECTS

- **Smart Brain**: Developed a responsive **React** UI for facial recognition using third-party **APIs**.
- **Web Cache Vulnerability Scanner**: Created a **Python** tool to detect caching flaws, strengthening web security.
- **Earthquake Prediction**: Utilized **ML** models (**KNN**, **SVM**, **Random Forest**) in **Python** to detect seismic activity.

EDUCATION

B.Tech – Computer Science & Engineering | SASTRA University, Thanjavur | 2019 – 2023

CGPA: 8.55

CERTIFICATIONS

- **Java Certification – Great Learning**
- **Python, Java, SQL, Software Engineering – HackerRank**
- **AWS Cloud Practitioner (in progress)**

ACHIEVEMENTS

- Awarded **Best Employee of the PI** for optimizing queries, reducing **Snowflake costs by 10%**.
- Recognized as part of **Best Team of the Year (2024)** for **strategic excellence** and **high-impact delivery**.