

SWAPNIL SADANAND KASPALE

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TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, HTML, CSS, SQL
- **Frameworks:** Spring boot, Spring Batch, Caffeine, Hibernate, Spock, Junit, Mockito, Angular, React, Langchain
- **Database Technologies:** Oracle, MySQL, Postgres, GCP Firestore(Nosql), FAISS
- **Misc:** Git, Maven, Docker, Kafka, CI/CD, REST API, Design Patterns, GraphQL, RAG, Jira, Agile

EXPERIENCE

Fidelity Investments, United States ~ *Senior Software Engineer.*

May 2023 - Present

- Developed and maintained Spring Boot services and Angular applications to support research on stock market funds, enhancing the data analysis capabilities of the research team.
- Optimized data retrieval by implementing **Caffeine cache** in Spring Boot services, resulting in significant performance improvements and reduced latency for data access.
- Designed and implemented **GraphQL** schema and resolvers to support dynamic and efficient data fetching.
- Built and deployed an **AI assistant** for onboarding documentation using **RAG** architecture with **GPT-4** and **LangChain**, integrating vector-based retrieval to provide context-rich answers and reduce manual query resolution time.
- Converted and enhanced a complex PL/SQL stored procedure into a Java-based service, enabling complex data calculations to be handled in a scalable microservices environment, improving maintainability and performance.
- Deployed and managed microservices in **AWS** Elastic Kubernetes Service (EKS), ensuring scalability, reliability, and seamless integration within the cloud infrastructure.
- Collaborated with cross-functional teams to deliver robust, scalable solutions, actively contributing to architecture discussions, code reviews, and optimization efforts for better system performance.
- **Stack** - Java, Spring boot, REST API, GraphQL, Python, Langchain, FAISS, Angular, Docker, Git, Spock, Mockito, Jira, Agile

Amazon, United States ~ *Software Development Engineer Intern.*

May 2022 - August 2022

- Developed a RESTful service utilizing **Rust** and RocksDB to enhance data storage capabilities, replacing S3.
- Integrated new service into existing application, including implementation of both unit and integration tests.
- Adoption of new service improved application's availability from 4 nines to 5 nines.
- **Stack** – Rust, Java, Spring boot, REST API, RocksDB, Docker, Git, Mockito, Junit, Jira, Agile.

Infosys Limited, India ~ *Technology Analyst.*

October 2017 - July 2021

- Built REST endpoints to generate reports using **Spring boot**, JDBC, Apache POI and advanced Java8 features including Collections API, Streams for data handling drastically reducing manual efforts for clients.
- Mentored juniors by assigning and helping with allocated tasks.
- Incorporated JPA, REST API, and MySQL to ensure data persistence and easy access for data retrieval and analysis.
- Developed runcards in Control-M Workload Automation tool leveraging Shell scripting to automate processing of data.
- **Stack** - Java, Spring boot, Spring Batch, REST API, Hibernate, Mysq, Javascript, Git, Mockito, Junit, Jira, Agile.

EDUCATION

University at Buffalo, The State University of New York.

February 2023

Masters in Computer Science [GPA: 3.63/4]

Mumbai University, India.

May 2017

Bachelor of Engineering in Electronics and Telecommunication

PROJECTS

G1 Garbage Collector | *Java, MMTK, RVM*

December 2022

- Built heap allocation, mark phase, copying/clean up phase using MMTK incorporating young, survivor, and mature generations for optimized Java object management and tested across different benchmarks.

HistroChain | *Solidity, React, MaterialUI, ES6+ JavaScript.*

December 2022

- Built a blockchain application using Solidity and React to keep track of a person's educational and professional history.