

Siddhesh Shinde

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SKILLS

Languages : C++, Java, Python

Technologies : SpringBoot, AWS, MERN, SQL (PostgreSQL, MySQL), Git/Github

Systems Core : OS, DBMS, CN, COA

WORK EXPERIENCE

MorningStar, India

Associate Software Engineer (July 24' - July 25')

- Worked on **implementing and optimizing data transfer pipelines** using Python, Terraform and AWS services (Lambda, Redshift), reducing data processing time by 30%.
- Assisted **development of Python-based automation scripts** for SQL query generation and QA testing flow resulting faster development of SQL scripts for data pipeline.
- Improved SQL procedures with different approaches, leading to a 25% efficiency in query processing time.
- Implemented **Unit Testing of Lambda Functions in Python** for ETL data pipelines with 85% code coverage.

PROJECTS

PhotonDB

- A high-performance in-memory **NoSQL database** server written in C++17 and state-of-the-art MCP server enabling low latency and **natural-language interactions** with the database.
- Supports core DB operations via terminal, with additional support for interaction through any LLMs (e.g. ChatGPT, Claude, Cursor) over the **MCP protocol**.
- Implemented **HashMap** and **AVL tree** from scratch for efficient data management and retrieval.
- **Tech used** : C, C++, CMake(for build), Python(MCP)
- **Project Link** : github.com/s1ddh3sh/PhotonDB

RailEase

- A railway ticket booking website inspired by Indian UTS designed for seamless ticket booking across the Mumbai local train network.
- Used a greedy approach of **Dijkstra's algorithm** for ticket cost calculation, **Spring Boot MVC**, DTO pattern, **PostgreSQL** for database, etc
- Implemented Docker containerization and microservices using docker-compose, custom exception handling, logger, unit testing, etc
- **Tech used** : Java SpringBoot, Angular, PostgreSQL
- **Project Link** : github.com/s1ddh3sh/RailEase

EDUCATION

VIDYALANKAR INSTITUTE OF TECHNOLOGY (2021-2024)

BE in Information Technology (CGPA : 9.47/10)

S.V.JOSHI JUNIOR COLLEGE (2018 – 2020)

HSC (Class XII)- Percentage : 92.31%

ACHIEVEMENTS

- GATE AIR-1061
- Black Belt in Karate