

SHIVANI GHANASHYAM BHALERAO

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SUMMARY

Highly skilled Software Engineer with **4 years of experience** in building scalable, robust full stack solutions with **Java, Python, JavaScript, and SQL**. I have a proven history of **leading engineering efforts**, improving system performance, and **automating complex financial processes** on **GCP** to ensure **100% transactional accuracy** for multi-million dollar portfolios. My technical proficiency spans **Spring Boot, React, Docker, Snowflake, GraphQL** and **Oracle SQL**, demonstrating a strong ability to deliver high-quality, reliable software.

WORK EXPERIENCE

Software Engineer 2 | Westlake Services, LLC (Auto Finance Company Managing \$18B+ Portfolio) | July 2023 – Present

- Engineered a fault-tolerant loan onboarding pipeline using Java (**Spring Boot**) and **Oracle SQL**, ingesting and processing 130K active loans with 100% data accuracy, thereby adding a **\$1.2 billion** portfolio to the business in 1 day, reducing boarding time required by **50%**.
- Streamlined rebate processing by architecting a solution that **fully automated** a previously manual process, ensuring compliance and accurately handled over **\$1M** in rebates using **Oracle SQL** and **Snowflake**.
- Collaborated cross-functionally with servicing and accounting teams to engineer a 'loan contract rewrite' process by implementing a layered, **facade-based architecture** that encapsulated complex SQL procedures. This automation reduced average processing time from **25 minutes to under 1 second** per loan, while ensuring **100% transactional accuracy** and **compliance**.
- Implemented GAP insurance rebate workflows using Java (**Spring Boot**) and **SQL**, **reducing error rate by 88%**, thus resolving discrepancies related to delayed or incorrect refunds.
- Automated the generation and precise mapping of **130K+** payment general ledger entries, streamlining accounting reconciliation processes and **improved transactional accuracy** across the financial ledger by **96%**.
- Streamlined Wells Fargo payment rejection workflows using **SQL**, processing **300+** monthly files with zero manual intervention and reducing processing time from 4 hours to **20 seconds** per batch.

Software Engineer Intern | Meta (Social Networks, AI & Virtual Reality) | May 2022 – August 2022

- Developed a permission management feature for business owners on Meta Business Suite (MBS) web and mobile applications using **React, React Native, and GraphQL**, improving **user efficiency** by **95%** for **50M+** monthly active business users through seamless integration of front-end components and backend APIs.
- Implemented restricted permissions for business employees using **React Native and GraphQL**, achieving a **97% efficiency** increase by refining user roles and access restrictions.
- Collaborated with the Facebook Lite design team, contributing to brainstorming sessions for crucial feature enhancements and suggested a potential approach for **optimizing** app performance by **15%**.
- Presented newly developed features to an audience of 250+ Meta engineers and leaders, demonstrating strong technical communication by explaining architectural decisions and performance optimizations.

Software Engineer | TCS Ltd (Fortune 500 Enterprise Technology & IT Services) | June 2019 – June 2021

- Architected a deal reservation modification system with a modern stack of **Java, Angular, and Spring Boot**, leveraging **SOAP web services** to achieve a **62% efficiency improvement** by optimizing transaction management and implementing efficient database indexing to reduce latency.
- Resolved critical car rental rate inconsistencies by designing and implementing a feature using **Java microservices, an Angular front-end, and SQL**, that increased rental pricing reliability by **66%** and reduced customer support tickets by **17%**.
- Led **8-engineer** team to build a comprehensive integration test suite achieving **90%+ code coverage**, cutting production bugs by **40%**.
- Developed and deployed a statistical model within the Utilization Management System using **Spring Boot** and **SQL**, incorporating predictive modeling and data analytics to achieve over **95% accuracy** in calculating vehicle utilization.

PROJECTS

WalletAI | Python, FastAPI, React, LangGraph, PostgreSQL | January 2026

- Built an **agentic AI** personal finance assistant using **LangGraph** with conditional routing, intent/entity parsing, and clarification loops, and integrated **Plaid API** for near real-time transaction updates to deliver context-aware spending insights and budget recommendations.

Calendar Search Application | Python, ElasticSearch, Flask, Google Collab, Git | December 2022

- Developed a calendar text search application using **Natural Language Processing algorithms** and **Elasticsearch**, providing a highly-ranked, context-aware search capability to address a key market gap in other mainstream calendar platforms.

TECHNICAL SKILLS

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

Frameworks & Libraries: Angular, Django, FastAPI, Flask, GraphQL, React, React Native, Spring Boot

AI Frameworks & LLMs: LangGraph, Gemini, Claude

Cloud & DevOps: AWS, CI/CD, Docker, EC2, EMR, GCP

Big Data & Streaming: Apache Flink, Kafka, PySpark, Snowflake, Spark SQL, Pinecone

Databases: Cassandra, DynamoDB, Elasticsearch, Hive, MongoDB, MySQL, Oracle SQL, PostgreSQL, Redis, S3

ACADEMIC CREDENTIALS

Master of Science in Computer Science | Northeastern University | GPA: 3.96 / 4.00

2021 – 2023

Bachelor of Engineering in Information Technology | University of Mumbai | GPA: 8.15 / 10.00

2015 – 2019