

GOPALA SWAMY MUSHINI

SENIOR SOFTWARE ENGINEER

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WORK EXPERIENCE

Rocket Software, Pune, India

Senior Software Engineer

Feb. 2022 – Present.

- Designed and implemented an **Automated billing system**, replacing a manual process and saving over **120+ hours** of manual effort per quarter, while reducing billing errors by **95%**.
- Delivered real-time billing usage and cost insights to customers, resulting in an **80% improvement** in customer satisfaction and engagement.
- Engineered a cloud-native **API Integration platform** to pull orders from customer e-commerce platforms like **Shopify** and **Amazon Marketplace**, automating fulfillment and integration processes.
- Developed adaptable **Lambda connectors** for seamless integration with additional e-commerce platforms, reducing developer effort and **doubling customer integrations within 6 months**, leading to faster onboarding.

Pennant Technologies, Vizag, India

Software Engineer

Jun. 2019 – Feb. 2022

- Migrated the monolithic **EOD loan processing system** into a scalable, distributed microservices architecture, achieving a **50% performance improvement** by orchestrating parallel batch processing and running parallel execution of loan records across worker microservices, and implementing event-driven communication via Kafka.
- Engineered a highly resilient and performant system, implementing **database partitioning** and optimized SQL queries to boost **handling capacity by 30%**, while ensuring zero data loss through idempotent processing, retry mechanisms with exponential backoff, and a Dead Letter Queue (DLQ) within a Kubernetes-managed environment.
- Developed an interface for creating **receipts** for EMI payments and partial loan payments, incorporating a **real-time notification system** for upcoming payments and confirmations, with **caching mechanisms** to reduce redundant database queries and improve response times.
- Developed and optimized the **Receipt Upload Functionality**, enabling instant upload of up to **10,000 payment receipts** and improving processing efficiency by **65%** through **multi-threading techniques**.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript

Frameworks & Libraries: Spring Boot, REST API, Apache Kafka, Redis, NodeJS, ReactJS

Databases: PostgreSQL, MySQL, Oracle, MongoDB, Cassandra

Cloud & DevOps: AWS (EC2, EKS, S3, Lambda, SQS, SNS, CloudWatch), Docker, Kubernetes, Jenkins

Others: Git, JIRA, Postman, LLM, Ollama, Langchain, VibeCoding with AI

EDUCATION

Scaler Academy, Online Course

Specialization in Software Engineering (DSA, HLD, LLD, Distributed Systems)

Feb. 2022 – May. 2023

Jawaharlal Nehru Technological University, Andhra Pradesh, India

Bachelor of Technology in Electrical Engineering

Jul. 2015 – Apr. 2019

ACHIEVEMENTS

- Star Performer Certification (Two Consecutive Years) (2020, 2021):** Recognized for delivering critical financial projects on time and driving innovation in software development, consistently exceeding performance expectations at Pennant Technologies.
- Spot Award (Three Times in Three Quarters) (2023-2025):** Awarded three times for innovation in adding AI features, adhering to best code practices, and solving critical production bugs through self-willingness and responsibility.
- Finalist - Rocket Build Hackathon (2024):** Advanced to the finals among 2000 participants, presenting my concept for building an AI Studio for easy development of LLM models.

PERSONAL PORTFOLIO

- AI Instagram Memer:** Developed a web-based meme generator using **OpenAI** APIs to generate meme text and post it directly on **Instagram** through APIs.
- CodeExpert Tool:** Built an **AI-based** VS Code extension serving as a coding assistant for developers, leveraging **Code Llama** LLM and **AWS SageMaker**.