GOPALA SWAMY MUSHINI

SENIOR SOFTWARE ENGINEER

■ swamymushini@zohomail.in • 🤳 +91 911-076-0301 • 🛅 linkedIn • 🗘 github • 🏶 portfolio

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**%.
- 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.
- Led the development of AI-powered document filtering, enabling users to retrieve documents using natural language
 queries via voice or text input. Fine-tuned LLM models like Mistral NeMo 12B to interpret user queries and generate
 filter JSON objects for document retrieval.
- **Designed AI agents using LangChain** to understand **EDI business terms** and convert user queries into **MongoDB queries**, providing users with **aggregated data** to efficiently query and summarize documents meta data from MongoDB.

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, RAG, 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.