# **GOPALA** SWAMY MUSHINI

SENIOR SOFTWARE ENGINEER

■ swamymushini2@gmail.com • 🤳 +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.