

HARSHA PALAPALA

Legal Name: Sai Harsha Vardhan Reddy Palapala | ☎ 410-493-0227 | 📩 saiharshareddy123@gmail.com | LinkedIn
M.S. in CS@ UMBC(Dec'25) | Full-Stack Software Engineer | React • Java • Cloud • Spring Boot | GitHub

PROFESSIONAL SUMMARY

Full Stack Software Engineer with 2+ years of experience building enterprise grade web applications using **Java, Spring, Hibernate, JavaScript, React, SQL and NoSQL databases**, and cloud native practices. Skilled in SOA, multi tier application design, RESTful API development, and relational database modeling. Experienced with Docker, Kubernetes, Maven, CI/CD, and Terraform automation. Interested in AI driven development, responsible AI use, and engineering practices focused on efficiency.

PROFESSIONAL EXPERIENCE

Software Engineer (Digital Specialist Engineer) – Infosys Ltd. (2.5 Yrs Exp.)

Oct 2021 – Jan 2024 | India

Tech Stack: Java, Spring Boot, Hibernate, React, SQL, PostgreSQL, Azure, Docker, Terraform, Maven

- Developed **web application** components across the UI, service, and database layers using multi tier SOA principles.
- Implemented backend features using **Java, Spring Boot, Hibernate/JPA, REST APIs**, and SQL-backed data models.
- Built and consumed **enterprise RESTful services(Polycloud Platform)** and **SOAP-based web services** for cloud automations.
- Implemented a full-stack module for job scheduling automation by integrating **React UI, Spring Boot services, and SQL**
- Implemented a **service-oriented microservice** patterns for distributed backend and improved application performance.
- Integrated internal services and **external APIs**, establishing consistent request/response models and error handling
- Designed relational schemas using **PostgreSQL and Oracle** including keys, constraints, indexes, and optimized query models
- Used **Maven** for build and dependency management across Java/Spring modules and Containerized applications using **Docker**
- Reduced manual workloads by 40% by designing a Java based automation tool, showing **analytical & problem-solving skills**.
- Deployed services to **AWS** using Docker containers, Utilized **Azure Key Vault** for Secret Management and CI/CD workflows
- Worked with messaging systems such as **Kafka, RabbitMQ, and ActiveMQ** for distributed event processing.
- Worked with standard data formats including **XML and JSON** for service integrations.

Graduate Teaching Assistant - University of Maryland, Baltimore County (UMBC)

Sep 2024 – Present

Baltimore, MD, USA

Tech Stack: Java, React, Spring Boot, PostgreSQL, Git, Jenkins, Agile/Scrum

- Guided students through **object-oriented design, distributed systems, backend engineering, and debugging workflow**.
- Conducted Workshops on concepts of **API design, full-stack development**, and collaborative software engineering practices.
- Lectured on Agile project workflows and version-control collaboration using Git & GitHub.

EDUCATION

M.S. in Computer Science - University of Maryland, Baltimore County (UMBC)

Baltimore, MD, USA

Expected Graduation: Dec 2025 | GPA: 3.71/4.0

Relevant Coursework: Data Structures, Algorithms, Database Systems, Distributed Systems, Object-Oriented design

Bachelor's in Computer Science and Engineering - CMR College of Engineering & Technology

Hyderabad, India

Graduated: Aug 2021 | GPA: 3.62/4.0

PROJECTS

Library Discovery Tool (Full-Stack Web Application)

Tech Stack: Java, Spring Boot, React, PostgreSQL, REST APIs, Docker

- **Goal:** Enable developers to quickly compare open-source libraries using a responsive and scalable web interface.
- **Solution:** Built a full-stack web app enabling large-scale library comparisons within a service-oriented architecture. Implemented backend modules using **Java + Spring Boot + SQL**, and UI components using **React**

Reddit Thread Summarization (AI-Powered NLP Application)

Tech Stack: Python, Flask, React, PostgreSQL, BERT, GPT API

- **Goal:** Reduce time spent reading long Reddit discussions by automatically extracting key insights and summaries.
- **Solution:** Built a full-stack app integrating AI summarization pipelines exposure to **AI concepts and responsible AI use**. Implemented NLP pipelines (**BERT + GPT**), reflecting initiative in staying current with modern AI technologies

Anti-Fraud Model for Internet Loan (Real-Time Data Processing)

Tech Stack: Python, Kafka, Spark, Streamlit, PostgreSQL

- **Goal:** Detect fraudulent activities in real time for internet loan applications.
- **Solution:** Built a **Kafka** streaming pipeline simulating scalable, fault-tolerant event ingestion, relevant to Image Platform streaming workloads. Demonstrated strong **Python skills** and analytical problem solving through risk assessment logic

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, JavaScript (ES6+), Go (learning)

Frontend Development: React, JavaScript (ES6+), HTML, CSS, Angular(React Preferred)

Backend & Integration Services: Java, Spring Boot, Hibernate/JPA, Flask, API Integrations, Caching, SOAP Web Services, XML, JSON, Kafka, RabbitMQ, ActiveMQ; **Databases:** PostgreSQL, MySQL, Oracle, SQL, NoSQL

Architecture Practices: Service-Oriented Architecture (SOA), REST APIs, Microservices, Object-Oriented Design

Devops & Build Tools: AWS, Azure (AZ-900 Certified), Maven, Docker, Terraform, CI/CD (Jenkins, GitHub Actions)

Tools & Practices: Git, IntelliJ, Postman, Jira, Scrum, Testing (JUnit, PyTest), Documentation Writing, Technical Specifications