


# HARSHA PALAPALA

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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(Polycoud 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**

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

**Baltimore, MD, USA**

- 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