**LASYA PAMARTHI**

*Full-stack backend engineer with 2+ years of experience building scalable enterprise-grade systems*

*with Spring Boot, Oracle, and distributed Java components in high-transaction environments.*

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**education**

**Master Of Science,** Computer Science, University of California, Riverside, CA 3.78/4.0 Mar 2025

**Bachelor of Technology,** Information Technology, JNTU, Hyderabad, India 8.12/10.0 Jul 2021

**technical skills**

* **Languages & Programming**: Java (Core, J2EE, Oracle SE 11 Certified), Python, C++, Bash
* **Backend & Systems**: Spring Boot, REST APIs, JPA, JMS, ActiveMQ, Docker, Git, Jenkins, Shell Scripting, Linux/Solaris
* **Distributed & Performance**: OpenMP, MPI, SLURM, Caching (Ehcache, Redis), Thread-Safe Architecture
* **Data & Databases**: Oracle (11g/12c), PL/SQL, PostgreSQL, ETL, Query Optimization, ArcGIS, Scikit-learn, Pandas
* **Cloud & Frontend:** AWS (EC2, Lambda, S3), GCP, CI/CD Pipelines, HTML, CSS, JavaScript, React, Bootstrap

**certifications and achievements**

* **ORACLE** - Java SE 11 Certified Professional, SQL Database Programming, Cloud Infrastructure for **GenAI**
* Machine Learning Specialization – Stanford | Python – University of Michigan
* KPMG - Virtual Data Analyst Consulting (2020) | RealTime - Android Mobile Application Development (2019)
* Outstanding Academic Excellence, MGIT | **Hackathons finalists:** Cyber Security (2019), Smart India (2020)

**work experience**

**Instructional Reader,** *Data Structures and Algorithms* Jan 2025 – Mar 2025

*Bourns College Of Engineering, UCR California, Riverside*

* Reviewed 150+ Python/C++ assignments to ensure recursion correctness, memory safety, and modular design.
* Collaborated with students during structured code reviews to improve design robustness and testing discipline.

**Graduate Teaching Assistant,***Concurrent Programming and Parallel Systems* Sep 2024 – Dec 2024

*BCOE, UCR California, Riverside*

* Instructed 120+ students in OpenMP/MPI multithreading and parallel debugging using SLURM clusters.
* Diagnosed performance bottlenecks, guided modular design, and enforced thread-safe programming across distributed codebases

**Data Analyst Volunteer** Jun 2024 - Mar 2025

*CE-CERT, UCR California, Riverside*

* Built Python ETL pipelines and PostgreSQL workflows for processing 10M+ sensor records across emissions models; Used Docker to containerize ML pipelines for clustering, regression, and deduplication to geospatial data for real-time emission forecasting and anomaly detection.
* Collaborated with cross-functional research teams on health-environmental modeling at scale.

**Software Engineer,** *Framework and Core Services, CITIKYC* Aug 2021 – July 2023

*LTIMindTree Hyderabad, India*

* Designed and deployed Spring Boot microservices and RESTful APIs for a high-transaction KYC compliance platform, reducing API response latency by 35%.
* Integrated Oracle PL/SQL (v11g/12c) with backend services to support secure migration of 1.2M + records across DEV/SIT/UAT/PROD environments; implemented CI/CD with Jenkins and GitHub Actions.
* Debugged 40+ production issues under tight timelines, adapted to evolving compliance changes, and ensured regulatory alignment; Configured Ehcache for API-level caching and improved transaction throughput by ~20%.
* Deployed services in a Solaris environment and wrote Bash scripts to automate test/deploy tasks; collaborated with firewall-restricted infra teams for secure access.
* Contributed to message-driven batch processing using Spring JMS templates for internal workflows.

**project experience**

**LoreKraft –** *AI Driven MMORPG Engine, CalHacks 11.0 |* [*link*](https://github.com/plasya/LoreKraft.git)

* Built an end-to-end game system with a React frontend and Flask-based GPT-4 + RAG microservices; developed LangChain agents for autonomous quest generation and real-time player synchronization.
* Integrated REST APIs and vector search for semantic intent detection, deployed scalable MongoDB clusters, and containerized services using Docker and Kubernetes on AWS for modular CI/CD rollouts via Git.

**ScholarMe –** *Online Scholarship Management Portal*

* Engineered backend services using Java (Spring Boot), JPA, and MySQL to support secure authentication, session handling, and user profile workflows; implemented CI/CD pipelines with Git and Jenkins.
* Optimized SQL queries and indexing patterns to reduce latency by 25%, and built scalable REST APIs for dynamic form interactions and data-driven processing.