

# Srivalli Kotichukkala

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## Education

### University of Florida

Aug 2022 – May 2024

Master of Science in Computer Science; **GPA:** 3.63

Gainesville, FL

**Coursework:** Data Structures, Distributed Systems, Computer Networks, Mathematics for Intelligent Systems

## Technical Skills

**Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS

**Frameworks & Libraries:** Spring Boot, Hibernate, React, Django, REST APIs, Microservices, PyTorch, TensorFlow

**Databases & Cloud:** MySQL, PostgreSQL, MongoDB, Redis, AWS (EC2, S3, RDS, CodePipeline), GCP

**DevOps & Tools:** Docker, Kubernetes, Jenkins, Maven, JUnit, Selenium, Git, JIRA, Confluence, CI/CD, Agile

## Experience

### Community Dreams Foundation

Jul 2024 – Jul 2025

Software Engineer

Sebring, FL

- Architected a Donor CRM System using Java (Spring Boot, JAX-RS) and React, hosted on AWS and GCP, centralizing donor data and improving engagement efficiency by 25%.
- Developed the Impact Analytics Dashboard with React, Redux, and Chart.js, integrating Python-based analytics on AWS Lambda, reducing reporting time by 80%.
- Designed a Volunteer Onboarding Portal with microservice architecture and RESTful APIs, integrating digital ID verification and scheduling; increased onboarding efficiency by 40% and retention by 15%.
- Built and deployed the Community Impact Tracker using Spring Boot, PostgreSQL, and AWS ECS, enabling field teams to log activities and outcomes; improved transparency across 10+ active programs.
- Engineered an ML-powered Donor Retention Engine leveraging AWS SageMaker and Python-based predictive models to identify at-risk donors, increasing retention by 18% within six months.

### HCL Technologies

Aug 2020 – Jul 2022

Software Engineer

Chennai, India

- Engineered backend microservices using Java (Spring Boot, JAX-RS) for Instant Payments (NPP) and Credit Card Management modules, enhancing reliability across 10M+ monthly operations.
- Built and integrated Open Banking APIs aligned with ISO 20022 standards, leveraging AWS for scalability and achieving 30% higher API adoption among fintech partners.
- Implemented Kafka-based asynchronous workflows and containerized services with Docker and Kubernetes, reducing latency by 25% and improving resiliency under high load.
- Delivered React front-end enhancements for the Spend Insights Dashboard, applying React Testing Library for unit validation and improving UI responsiveness by 20%.
- Automated CI/CD pipelines in Jenkins with JUnit and TestNG, reducing manual release effort by 40% and accelerating deployments from monthly to bi-weekly.

### Softscript Solutions

Dec 2019 – Apr 2020

Software Engineer Intern

Visakhapatnam, India

- Built a full-stack healthcare web application using Python (Django, FastAPI) to manage patient data and lab results for clinical diagnostics.
- Developed and integrated machine learning models to predict six diseases from laboratory test data, achieving 85% model accuracy and enabling real-time predictions.

## Projects

### Data Migration Agents

- Developed an LLM-driven multi-agent framework using RAG pipelines, prompt chaining, and orchestration servers to automate large-scale data migration, reducing manual mapping effort by 70%.
- Integrated with AWS Bedrock, Splunk, and custom orchestration APIs for enterprise-scale automation.

### Fetal Health Dimensionality Reduction

- Employed feature selection techniques including f\_regression, L1 regularization, RFE, LCA, and PCA for dataset refinement and dimensionality reduction, enhancing data quality for predictive modeling.
- Achieved 94% accuracy using Random Forest with Independent Component Analysis (ICA).