Srivalli Kotichukkala

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EDUCATION

University of Florida   **Gainesville, FL**
MS in Computers and Information Science (GPA: 3.63)   *May 2024*
- Awards: Herbert Wertheim College of Engineering Achievement Award Scholarship

WORK EXPERIENCE

Community Dreams Foundation   **Orlando, FL**
Software Engineer   *July 2024 – June 2025*
- Architected a modular React component library with 15+ reusable UI components, improving development efficiency by 40% and ensuring a consistent user experience across the application.
- Developed scalable Java backend services integrated with OpenAI's GPT API for intelligent data processing and automated response generation, handling 50K+ daily API requests with enhanced accuracy.

HCL Technologies   **Chennai, India**
Software Engineer   *August 2020 – July 2022*
- Engineered a horizontally scalable microservices architecture handling 100K+ daily transactions, utilizing Spring Cloud Load Balancer and Hash-based sharding techniques to maintain sub-second response times.
- Designed a notification microservice using Spring Boot to send real-time alerts for transaction updates and account activities. Integrated Kafka and containerized with Docker, reducing delivery time by 40%.
- Designed RESTful APIs to track transaction failures and analyze customer activity trends. Automated data consolidation and reporting processes using Spring Batch and Splunk, saving 6+ hours per week.
- Deployed and managed applications on AWS, leveraging services like EC2, S3, and RDS. Automated deployment pipelines using AWS CodePipeline, reducing deployment time by 30%.
- Created 200+ test cases using JUnit and TestNG frameworks, achieving 90% test coverage, and implemented automated regression testing with Selenium, cutting testing time by 50% and enhancing accuracy.

Softscript Solutions   **Visakhapatnam, India**
Software Engineer Intern   *December 2019 – April 2020*
- Developed a healthcare website using Python and Django for disease prediction. Utilized machine learning models to detect the presence of 6 diseases, achieving an average accuracy of 81%.
- Trained and optimized models using PyTorch and employed FastAPI for seamless communication.

PROJECT EXPERIENCE

Gator Taxi
- Optimized ride allocation algorithm to O(log n) time complexity for request processing by using a min-heap and red-black tree data structures. Implemented a custom caching mechanism, reducing repeated computations by 40%.

Plagiarism Detection Using NLP
- Used Vector Space Models, Support Vector Machine, Random Forest, and BERT models. BERT achieved 85% accuracy and an 84% F1 score, demonstrating superior semantic understanding.

Fetal Health Dimensionality Reduction
- Utilized f_regression, L1 regularization, RFE, and LCA, PCA techniques for dataset refinement, and Regression, SVM, and Quadratic Discriminant Analysis models for fetal health assessment. Random Forest Classifier with Independent Component Analysis attained 94% accuracy.

Internet Chatting
- Used multithreading to create reading and writing threads. Employed a server socket to facilitate communication, achieving a throughput of up to 10 messages per second. Architected file transfer functionality.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML, CSS

Databases: SQL, MySQL, MongoDB, PostgreSQL, Oracle

Frameworks & Libraries: Spring Boot, Hibernate, React, Node.js, Django, PyTorch, TensorFlow, Selenium, JUnit

Cloud & DevOps: AWS, Docker, Kubernetes, Maven, Jenkins, CI/CD

Methodologies: Agile, Scrum, Kanban, SDLC, Test Driven Development (TDD), Microservices Architecture

Operating Systems & Tools: Windows, Linux, Unix, MacOS, Git, GitHub, JIRA, Confluence