Jaya Chandra Kanth Reddy Cheemarla

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Education

Master of Science, Computer Science — **August 2023 – May 2025**
University of Florida — CGPA: 3.6/4

Technical Skills

Languages: Java, Python, C, C++, SQL, JavaScript, HTML, PHP, and CSS.
Databases: Oracle, MySQL, MongoDB.
Frameworks & Developer Tools: Helidon, Spring boot, Node.js, React.js, Microservices, Cloud Native, APIPCS, Gateway Deployments, Git, Django, JIRA, Postman, Oracle JET, REST APIs, Docker, Kubernetes, OAuth2.0, Oracle Cloud Infrastructure, NLP, Neural Nets and ELK Stack.
Certifications: **OCI Foundations Associate**, **Certified Scrum Master**

Experience

Graduate Research Assistant — **March 2024 – Present**
National Science Foundation — *Gainesville, Florida*

- Spearheaded the development of a SaaS-based AI-Integrator platform to streamline the training and deployment of machine learning models, projected to cut development time for new models by 80% and boost deployment efficiency by 40%. The platform currently integrates with Intel Gaudi 2 and Sapphire Rapids CPU.
- Designed and implemented APIs for smooth integration with Hugging Face models, increasing platform flexibility and reducing integration time for developers by approximately 25%.
- Integrated Open OnDemand to facilitate experimentation with Hugging Face models in Jupyter Notebooks, enhancing the efficiency and accessibility of model development and testing, along with Prometheus for metrics collection and Grafana for dashboard visualization.

Software Engineer — **March 2023 – July 2023**
Deutsche Bank — *Mumbai, India*

- Orchestrated the redesign and seamless migration of the backend workflow for Lombardy ISME module's structured and unstructured loan portal into a Microservices Architecture.
- The strategic transition yielded a remarkable twofold enhancement in performance in contrast to the pre-existing legacy module deployment.
- Conducted a seamless migration of Java Spring applications from WebLogic to Tomcat, by identifying and resolving bugs, thus ensuring enhanced system stability and smooth transition.

Software Engineer — **January 2020 – December 2022**
Oracle — *Hyderabad, India*

- Developed a gateway throttling feature that streamlined bulk API hits and throttled requests, thereby increasing the uptime of the portal by 8 times.
- Revamped portal services to facilitate the seamless onboarding/offboarding of fresh customers and partners onto OHIP, enabling efficient access to REST endpoints within the OPERA cloud.
- Devised an analytics component based on the ELK Stack, processing logs to uncover insights that drove a 15% increase in app engagement, directly boosting user growth and retention.
- Authored CI/CD pipelines for the deployment of Docker containers and Kubernetes pods, establishing a robust application environment. This initiative culminated in the successful integration of over 50 new partners.
- Designed a fault-tolerant and scalable architecture, reducing downtime and meeting elastic needs.
- Spearheaded the Scrum Master role, enhancing team collaboration and efficiency by implementing agile practices, organizing tasks, and coordinating with multiple product owners, resulting in a 30% increase in team throughput.

Projects

Gator Library Management System

- Transformed library management operations by implementing Red-Black Trees and Min Heaps in Java, which optimized search algorithms and halved query times.

Social graph for advertisements using Natural Language processing and Machine Learning

- Developed an NLP model to identify, classify, and transliterate mixed Indian languages and English, achieving 96% accuracy.
- This model also predicts sentence semantics, classifies them into questions, recommendations, or suggestions, and builds relationship graphs through Neo4j, which were deployed on AWS Neptune.

Waste Classification and Recycling using Deep Learning and IoT

- Constructed a custom neural network by integrating optimal aspects from DenseNet and ResNet, achieving 96.3% accuracy in categorizing and segregating waste into four classes of recyclable and non-recyclable types.
- This algorithm was then integrated into an IoT model with odor and weight sensors and deployed in over 50 trash cans and garbage bins across the college premises.

Leadership and Achievements

- Student Leader and representative for CBIT at the **Computer Society of India,** conducted 5+ workshops on Algorithms.
- **Placement Coordinator** for CSE branch in CBIT career development cell. Liaised with 20+ corporates to recruit on campus.
- Winner at the **'Smart India Hackathon 2019' Software Edition,** a national-level hackathon with a reward of 100,000 INR.
- Winner at **Project Presentation** on Social graph to simulate a strategy for advertisements at SUDHEE, Technical Fest 2019.