

HRUDAY TEJ AKKALADEVI

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EXPERIENCE

i-Heal (Intelligent Health) | *Software Development Engineer*

September 2023 - Present

- **Data Pipeline Containerization:** Built a HIPAA-compliant data pipeline using Python and PostgreSQL, containerized with Docker and Apptainer. Streamlined the ingestion of over 30GB of unstructured EHR data, reducing processing time by 60%.
- **Distributed Multi-Agent AI Framework:** Architected a modular multi-agent AI in Python, that decomposes complex healthcare queries across specialized LLMs, improving factual accuracy by 70% through targeted task specialization and staged processing.
- **Distributed Kafka Orchestration:** Employed Apache Kafka to orchestrate asynchronous message flows between multi-agent LLM-architecture, eliminating sequential bottlenecks and reducing request queuing by 70% through parallel processing streams.
- **Data Evaluation Platform:** Engineered a Golang and Angular-based tool for healthcare professionals, streamlining dataset validation, improving dataset accuracy by 30%, leading to higher-quality training data and improved model performance.
- **High-Performance Data Uploads in Go:** Leveraged Goroutines and Channels in Golang to enable concurrent, asynchronous large-scale data uploads for ML engineers, achieving 5x faster processing and reducing upload latency by 60%.

JP Morgan Chase | *Software Development Engineer - EMR Cluster Controller*

January 2022 - July 2023

- **Automated EMR Solution:** Led the complete SDLC of a high-impact Big Data (IaaS) Solution that ensures secure interaction with Amazon EMR clusters, enabling seamless submission and execution of Big Data jobs, improving the operational efficiency by 90%.
- **Developed Cluster Management APIs:** Engineered REST APIs for EMR cluster management (creation, repaving, destroy) using AWS Lambda, provisioned through Terraform, boosting the system robustness by 70%.
- **Secured EMR Access using IDAuth:** Spearheaded user authentication and authorization implementation using IDAuth on EMR clusters, enabling secure Spark, Hadoop job submission via Livy Sessions with 100% compliance with firm's security standards.
- **Jenkins-EMR Integration:** Integrated Jenkins with the EMR Controller using Groovy scripts and SNS/SQS mechanisms, enabling customers without IDAuth tokens to interact with EMR clusters, resulting in a 10% boost in customer engagement.
- **Resource Optimization with Grafana:** Piloted the development of Grafana dashboards and Housekeeping utilities to monitor AWS services, effectively identifying and managing idle resources, reducing client infrastructure costs by up to \$100,000.
- **Multi-Region Availability/Deployment:** Configured Terraform codebase, S3, Lambda functions, and complete CICD Jenkins deployments pipeline to support multi-region product availability, leading to a 20% increase in consumer base.

JP Morgan Chase | *Software Development Engineer - Infolink Decommission*

March 2021 - December 2021

- **Monolithic to Microservices:** Migrated high-impact monolithic architecture processing Swift MT messages (including versions 202, 304.) to microservices using Spring Boot, Docker, and Kubernetes, achieving transaction processing of 2 million per second.
- **GraphQL Data Unification:** Designed and implemented GraphQL APIs to unify data access across 10+ distinct microservices, significantly reducing payload size by 40% for complex Swift message queries and decreasing response time by 25%.
- **Microservice Containerization on Kubernetes:** Containerized 10+ Spring Microservices using Docker on Kubernetes Clusters, increasing availability by 50% for fast-paced transactions involving Swift MT messages and reducing update patch time by 40%.
- **Automated Production Testing:** Bolstered Production Parallel Testing workflows for Swift MT message processing using Apache Kafka, automating testing and reducing human intervention by 95%, while ensuring compliance with financial messaging standards.

EDUCATION

University of Florida: Master of Computer and Information Science and Engineering(GPA : 3.9/4.0)

August 2023 - May 2025

CERTIFICATIONS

[AWS \(Amazon Web Services\) - Certified Solutions Architect – Associate](#)

December 2024 - December 2027

PROJECTS

Youngstaan Foundation (NGO) | *JP Morgan Chase (Force For Good)* | *Flutter, AWS, DynamoDB*

- Conceptualized and designed a Full Stack Mobile Application utilizing Flutter for the front-end AWS lambdas for the RESTful APIs and DynamoDB for the data storage. Achieved a notable 55% enhancement in the User Experience and Onboarding process.
- Directed security enhancements, database designs, UI upgrades, and features like Geo-tracking, Notifications, and Google Maps integration, automating 90% of manual tasks and reducing company costs by 95%.

Reddit Clone | *Golang, React, Mux, Spam-Filtering, GPT*

- Programmed a high-performance Reddit-like platform using Golang (mux) for RESTful APIs and PostgreSQL with indexing to optimize post retrieval, achieving 35% faster query execution for large-scale discussions.
- Integrated an AI-driven content moderation system using Go-routines and regex-based filtering, automating 70% of moderation tasks and reducing manual intervention.

SKILLS

Languages : Java, Golang, Python, C#, Shell Script, HTML5/CSS3, Javascript, SQL, GraphQL.
AWS Services : Elastic Map Reduce, Lambda, API Gateway, Security Groups, Load Balancers, EC2, S3, IAM, DynamoDB, SNS/SQS, CloudWatch, Code Pipeline, CloudTrail, SSM Parameters, KMS, Event Bridge, Route 53.
Frameworks : SpringBoot, Django, Flask, Flutter, ReactJS, Android Java.
Tools/Technologies : Docker, Kubernetes, Kafka, Terraform, RabbitMQ, Maven, Splunk, Git/BitBucket, Jenkins, JIRA, MySQL, PostgreSQL, MongoDB, Grafana, RESTful APIs, CI/CD.