VARSHINI CHALLAGUNDLA

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LinkedIn | HackerRank | GitHub

EDUCATION

VNR Vignana Jyothi Institute of Engineering and Technology Hyderabad, TS
B.Tech in Computer Science Engineering (CGPA 9.00) Jun 2023

SKILLS

Technical Skills	Problem Solving, Big Data, Micro-Services, Data Streaming, APIs, Unit Testing
Languages & Frameworks	Java, Python, JavaScript, Typescript, SQL, HTML, CSS, Angular, ReactJs, Bootstrap, Figma
Backend Technologies	Spring Boot, Django, NodeJs, ExpressJs, REST, Kafka, Zookeeper, Splunk, Liquibase, Twilio
Databases & DevOps	MySQL, Postgres, MongoDB, Redis, AWS, Docker, Kubernetes, Terraform, Jenkins

EXPERIENCE

Software Engineer Jun 2023 - Present
JPMorgan Chase & Co. *Hyderabad, TS*

- Worked on **Challenge Fraud Management** to enhance monitory and non-monitory fraud detection and risk management
- Developed a risk authentication system to enhance transaction security by implementing multi-factor authentication.
- Designed and implemented rule-based decisioning systems using IBM ODM and ACTIMIZE for real-time fraud detection.
- Led the migration of the system from private cloud to AWS, ensuring scalability and cost optimization.
- Utilized AWS Kinesis for real-time data streaming and Amazon ECS for containerized microservices deployment.
- Worked on **Pay-In-Four Communications** and developed a highly-scalable Buy-Now-Pay-Later component using AWS, Spring & Java for Chase Pay application. Resulted in a 5% rise in customer-base within 10 months of go-live.
- Leveraged Apache Kafka to code a Real-Time Notification Service using Pub/Sub Design Pattern on AWS EKS & Step Function for reversed/reimbursed payments. Achieved a benchmark reduction in Late Fees of $4k/day for customers.
- Designed a low-latency pipeline to process 70K+ alerts daily using Dynamic Parallelism leveraging AWS Map State.
- Engineered an AutoPay feature for recurring payments. Implemented a Spring-Boot based Pub/Sub Service over Microservice-based design to handle 100K Transactions/hour. Led to an increase in performance efficiency by 200%.
- Collaborated on the migration of Application Infra from AWS EKS to ECS leading to reduction in $7.3K+ yearly.
- Delivered a Centralized-Operations Remediation Tool following business requirements to support Production Incidents during downtime. Configured AWS Aurora Postgres & Lambda to integrate with a Rest Client to trigger bulk workflows.

Software Engineer Intern Feb 2022 - Jun 2022
DocBot Pvt. Ltd *Remote*

- Worked as a Backend developer on an AI-based product to develop Node Microservices that computed clinical measures with state-of-the-art accuracy. Achieved an overall SLA of less than 90 seconds.
- Developed an Appointment Scheduling System for deployment in Remote areas with an efficient UI/UX. Delivered systemic layouts and overviews of booked appointments along with a Notification Service to alert customers.
- Leveraged Twilio APIs to incorporate a Multi-Channel Communication feature to notify doctors using Voice, Text & Video.

PROJECTS

Chase-Cards Rewards Application Designed and Developed UI/UX features for a Reward Points Web App using React. Integrated with fault-tolerant and scalable Spring Microservices leveraging Hibernate & JPA, that dynamically computed points based on Credit History patterns. Deployed the app using K8S and demoed it to JPMC Leaders. Received support for go-live.

Speech Emotion Recognition System Developed a comprehensive ML model to predict human emotions in near real-time. Utilized NLP techniques to extract textual features from Speech data, and a downstream CNN model for classifying emotions.

PUBLICATIONS

- End-to-End Scene Text Understanding for Computer Vision using Machine Learning [ref.]

ACCOMPLISHMENTS

- **Certifications** — AWS Certified Cloud Practitioner, HashiCorp Certified Terraform Associate, Google Certified Data Analytics Professional
- JPMorgan Chase Code for Good Hackathon 2022 — **Winner**