RIYA RANJAN

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WORK EXPERIENCE

Apptad Inc.   Los Angeles, CA
Business Automation Engineer   Jan 2025-present
- Automated Azure deployments using Helm and Terraform, improving environment consistency and delivery speed
- Provisioned local Kubernetes clusters to validate workflows before deployment, reducing integration issues and speeding up testing cycles

Facilities Planning and Management (FPM), USC   Los Angeles, CA
Software Intern   May 2024-Sept 2024
- Integrated MySQL with AssetWorks and Workday APIs to replace FAMIS Cloud, enabling seamless migration for 500+ suppliers and boosting data accuracy by 30%
- Executed end-to-end API testing using Postman and Python scripts to validate integration flows and error handling, improving efficiency by 20% and reducing downtime by 15%

Dell Technologies   Bangalore, India
Software Engineer 2   July 2020-July 2023
- Spearheaded the design of dynamic device connection mismatch detection across HiveMQ broker, database, and application tiers, ensuring 100% SLA compliance and improve service availability
- Built and optimized microservices and MQTT APIs for real-time device communication, using MySQL-backed schemas to reduce post-release incidents by 50% and improve scalability by 30%
- Refactored system architecture and NGINX routing rules to fix data inconsistencies and authentication flaws, increasing PKS deployment speed by 25% and reducing security issues by 40%
- Scaled applications by distributing compute across nodes and tuning resources, boosting response time by 90% using Prometheus and Grafana for proactive monitoring of load metrics and system health
- Migrated 150+ services from Jenkins to PCF, modernizing automated release deployment CI/CD workflows and improving environment stability through platform-as-a-service automation
- Implemented DevSecOps practices by embedding security protocols into deployment pipelines, increasing compliance rates by 81% and strengthening system resilience

Software Engineering Intern   Jan 2020-May 2020
- Devised a real-time log analysis pipeline using Elasticsearch, Kafka, and Flask to process billions of records across Dell EMC network, reducing incident resolution time by 60%
- Pioneered a SARIMA-based downtime prediction PoC, improving outage forecast accuracy by 93% and reducing unexpected crashes by 40%
- Integrated predictive alerts with log metrics, achieving a 3x increase in monitoring coverage and improving server performance efficiency by 80%

PROJECTS

Home Credit: Credit Risk Analysis   Jan 2024-May 2024
- Engineered 50+ time-based features and fine-tuned tree-based models (CatBoost, LightGBM and XGBoost), increasing prediction accuracy of loan defaults by 15%
- Analyzed feature importance scores from tree-based models to identify key drivers of loan defaults and tracked weekly risk trends, helping business teams improve credit decision-making

Multimodal Fusion for Enhanced Emotion Recognition in Human Communication   Jan 2024-May 2024
- Developed emotion recognition pipelines using audio, visual, and combined data by training 2D/3D CNNs and Transformers, enabling the system to detect human emotions from speech and facial expressions
- Evaluated models on the full CREMA-D dataset and compared performance across different architectures, identifying strengths and limitations to guide future improvements

SKILLS

Languages: Python, Java, Bash, TypeScript
Databases: MongoDB, MySQL, Oracle Db, Elasticsearch, Kafka
Python Libraries: Pandas, Numpy, Matplotlib, Scikit-Learn, TensorFlow, PyTorch, Keras, PySpark
Cloud: AWS PKI, Azure, PCF
DevSecOps: Docker, Kubernetes, Jenkins, Helm, Terraform, Grafana, Prometheus, SonarQube, Black Duck, Checkmarx
Tools and Technologies: Spring Boot, Node.js, Flask, Splunk, Power BI, Tableau, HiveMQ, Mosquitto

EDUCATION

University of Southern California   Los Angeles, CA
Master of Science in Computer Science, GPA: 3.66/4   Aug 2023- Expected May 2025

Manipal University Jaipur   Jaipur, India
Bachelor of Technology in Computer Science & Engineering   July 2016-July 2020

ACHIEVEMENTS

- Dell Bravo Award for leading compliant application development and boosting DevOps CI/CD maturity from 23% to 93%
- Hack2Hire Dell Hackathon winner, showcasing best service support recommender algorithm boosting customer satisfaction and retention