VENKAT SUMANTH REDDY VADDE

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EDUCATION

University of Southern California | Los Angeles, California

Masters of Computer Science - Courses - Analysis Of Algorithms, Database Systems

July 2017-June 2021

August 2022-May 2024

Vellore Institute of Technology | Vellore, India

Bachelor of Technology in Information Technology - GPA: 9.29 / 10

EXPERIENCE

Amadeus Labs | Software Development Engineer 1

August 2021-July 2022

- Development: Introduced new features, integrated API's, designed regression suite and troubleshot incidents. Built shared libraries, established data caching solution, overhauled legacy codebase and improved code coverage upto 90 percent
- Application Cloud Migration: Collaborated with architects to engineer migration strategy and high level design for product migration. Deployed pilot implementation onto Amadeus Cloud Services hosted on Openshift for initial validation
- Configuration Manager: Outlined requirements and developed REST based application for managing configurations across 6 different phases, resulting in directly saving 275 days of developer effort and scaled down implementation time by 50 percent
- Report Generator: Built scalable Splunk based solution to provide 3 major airlines with operational and delivery statistics
- Data Recovery Tool: Revamped data recovery tool for better performance, led to 2x faster retrieval of purged records
- Incident Management: Devised solutions through automation to target bottlenecks, resulting in 20 percent fewer incidents

Amadeus Labs | Software Development Intern

January 2021-June 2021

- Observability Platform: Launched a platform to trigger 'Chaos Engineering' experiments as part of system stability initiative, to accurately validate resilience of micro-services which resulted in dramatic improvements to incident response time
- Monitoring Dashboard: Integrated API's of Prometheus and Google Charts with React frontend for functional metrics
- Backend Services: Streamlined perturbation service by integrating 2 plugins; built backend on Mongo DB to track results

Techvedika, BigAI | Software Development Intern

May 2019-June 2019

• Character Recognition Module: Deployed model for character recognition of vehicle license plate which then served as module in pipeline. Segmented characters using Connected Component Analysis and achieved an accuracy of 91 percent

SKILLS

Languages: Java, Python, JavaScript, CPP, Typescript, Go, HTML, CSS, Shell Scripting

Frameworks / Web / Database : React JS, Express JS, Node JS, Mongo DB, SQL, Google Test Lib

Developer Tools: Git, Docker, Kubernetes, Postman, Jenkins, Bitbucket, Confluence, Prometheus, Grafana

Projects

Detection and Prevention of Phishing Attacks by Deep URL Inspection: Python, Node JS, AWS

- $\bullet \ \ \text{Web extension for detection of malicious websites based on ANN model hosted on cloud via deep URL inspection}$
- Orchestrated text analysis and NLP based feature extraction mechanism to accomplish an accuracy of 96 percent

Assist Web App: HTML, CSS, JS, Express JS, Mongo DB, Leaflet API

- Responsive graphical interface for identification of critical assistance points within a geographical boundary
- Leveraged API's for maps and formulated functions to add, delete, filter and update co-ordinates

Automated Glaucoma Detection: Python, Scikit-Learn, OpenCV

- Developed dynamic and adaptive algorithm to process retinal-fundus images to detect presence of glaucoma
- Computed cup to disk ratio by making use of Otsu Binarization technique and achieved 87 percent accuracy

Connect Web App: React JS, Node JS, Mongo DB

- Created a social network, enabling users to connect with other users via sharing posts and 'like, comments, profile'
- Integrated backend API built on Mongo DB with React frontend components along with performing extensive testing

Leadership and Awards

Leadership: Led a team of 10 members to conduct technical talks and workshops in order to promote entrepreneurship

Awards: Awarded 'High Flyer' for contribution towards software development activities in Q4-2021 and Q2-2022 at Amadeus Labs