Sai Rukesh Kantheti

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EDUCATION

Master of Sciences in Computer and Information Sciences   Sep 2021 - Dec 2022

New Jersey Institute of Technology   Newark, NJ

GPA: 3.7/4.0

Relevant Coursework: Java Programming, Database Management and Design, Internet Higher level Protocol, Web Systems Development, Cloud Computing, Operating System and Design, Machine Learning, Data Structures and Algorithms, Data Mining, Cryptography and Security.

Bachelor of Technology in Electrical and Electronic Engineering   Jul 2017 - Jun 2021

Amrita University   Coimbatore, India

GPA: 3.5/4.0

Relevant Coursework: C programming, Foundation of IT, Optimization Techniques, Digital Signal processing, Digital Image processing, Fundamentals of soft computing.

WORK EXPERIENCE

Application Developer   Feb 2023 - Present

Southern Company

- Implemented and documented an automated OCI health check monitoring framework utilizing **Dynatrace**, including playbook creation, scheduling, and documentation.
- Utilized logs, performance metrics along with platform usage data to analyze platform behavior pinpoint areas for improvement and **mitigated risks** using monitoring with risk assessment tools
- Developed and maintained web applications using JavaScript, focusing on reusability and componentization to enhance the efficiency and scalability of the codebase.
- Resolved platform incidents through **collaborative troubleshooting** with ERP support and Product Delivery teams.
- Utilized agile methodologies to iteratively develop & deploy features for internal & customer-facing applications, leading to **efficient feature deployment**
- Managed the creation, release, and configuration of production systems, including evaluating new technology alternatives and vendor products.
- Utilized MySQL and other database technologies to support application development and data management needs.
- Utilized Oracle Data Integrator (ODI) to automate data extraction, transformation, and loading (ETL) processes for data population and datasync.

Software Developer   Sep 2022 - Dec 2022

TekSolve IT solutions

- Designed, maintained, and managed tools for automating diverse operational processes, ensuring resilient and secure cloud-based infrastructure.
- Established CI/CD pipelines using Ansible, Docker, Kubernetes, AWS to **significantly boost deployment speed** & foster a robust DevOps culture
- Provided recommendations for architecture and process improvements, and defined and deployed systems for metrics, logging, and monitoring on the AWS ecosystem.
- Demonstrated strong analytical and software engineering design skills to solve complex problems and improve system functionality.
- Led the implementation of microservices architecture to enhance scalability & efficiency, while integrating **machine learning models through TensorFlow for predictive analytics** & Python libraries for data analysis

Summer Intern   Apr 2019 - May 2019

Bharat Heavy Electrical Limited   Visakhapatnam, India

- Collaborated with chief engineer we oversaw and planned specifications for new systems and help to developed the **software testing for the machinery malfunctioning.**
- Outlined, designed, developed tools, machines and electrical equipment- resulting in **20% increase** in efficiency.
- Researched, tested and evaluated the installations and systems of development **lines**.
- Developed and initiated training for maintenance department to development **machines** in real-time scenarios.

SKILLS

Programming Languages: Python, Javascript, SQL, C++, NoSQL, Java, HTML, CSS, PHP, Typescript
Frameworks: ReactJS, Angular, Bootstrap, Django, Flask
Libraries: TensorFlow, OpenCV, Pandas
APIs: REST, SOAP, GraphQL, Keras
IDEs: Apache NetBeans, PyCharm, Spyder, Anaconda, Visual Studio
CI/CD tools: Kubernetes, Docker, Heroku, Jenkins, CircleCI, GitHub Actions, Travis CI, GitLab CI
Database: MongoDB, Oracle DB, Cassandra
Cloud Services: AWS (EC2, API Gateway, CloudFormation, CloudWatch, S3, Cloud9, Elastic Beanstalk, Lambda)

Azure (Resource Manager, Monitor, Azure Functions, Service Bus, Event Grid, Key Vault, API Management)
Oracle (OCI, ERP, Autonomous Database)

Other Tools: Git, Webpack, Postman, Selenium, Jest

Interpersonal Skills: Innovative, Adaptability, Time Management, Decision making, Problem solving

CERTIFICATIONS

AWS Certified Developer Associate (F5CMKM72S2E41ESX**)**

Microsoft Certified: Azure Developer Associate(I538-6080**)**

Oracle Cloud Data Management 2022 Foundations Certified Associate (299390056OCDMF2022**)**

Oracle Cloud Infrastructure Foundation Associate (OCIF2022CA**)**

PROJECTS

Image Rekognition using AWS Cloud

- Two EC2 instances with Amazon Linux AMMI, that will work in parallel. Each instance will run a Java application. Instance 1 will read images from an S3 bucket that created and perform object detection in the images.
- When a car is detected using Rekognition, with confidence higher than 90%, the index of that image is storedin 5QS. Instance-2 reads indexes of images from SQS as soon as these indexes become available in the queue, and performs text recognition on these images.

Music Playlist Webpage

- Developed a secure and reliable music playlist web app. Implemented log authentication and unit testing.
- Deployed the app on Heroku using Docker and Ensured smooth production and user experience with efficient data pipelines.

Analysis of wine quality data using AWS

- Experienced in designing and implementing scalable data science solutions using Spark and AWS technologies. Developed a wine quality prediction application using Spark DataFrames and MLlib, achieving parallelization and distribution of job execution on an AWS EMR cluster.
- Stored and accessed data and trained models using Hadoop Distributed File System. Improved prediction accuracy and control over-fitting by applying a random forest meta estimator. Demonstrated versatility by also running prediction code on a single EC2 instance and using Docker to predict wine quality, ensuring portability and flexibility of the solution.

Natural Language Processing with Disaster Tweets

- Implemented a natural language processing project to identify disaster tweets that caused communication disruption and impact.
- Utilized supervised learning models, including XGBoost and deep learning with BERT, to detect disaster tweets and achieved an accuracy of 84.3%.
- Demonstrated strong skills in machine learning and natural language processing, and the ability to apply these technologies to real-world scenarios.
- Conducted extensive data analysis and feature engineering to optimize model performance.

Restaurant Automation System:

- Automation loads will be operated based on inputs given from a distant user or the same loads being operated based on the number of people around that particular table or area.
- The Customer review systems consist of a microphone, it will receive in voice inputs which will be converted into text instead of a written customer review and stored in database.
- Created a website for the restaurant to update the orders taken from customers and deliver it to the chef in the kitchen and the website helps to monitor lights and fans in the restaurant use to generate bill using IOT and passed to the customer phone.

Object Recognition for Blind:

- Considering the problems faced by the blind people to identify the objects in the house developed a working prototype model to recognize indoor objects and inform the blind person about the object using the audio speaker which is build by Keras API.