FNU RASI

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY   May 2024
Master of Science in Computer Science (GPA: 3.926/4.0)
- Positions: Graduate Teaching Assistant (Structured Programming and Formal Methods, Introduction to DBMS)

Mahatma Gandhi University - Kerala, India   May 2018
Bachelor of Technology in Computer Science and Engineering
- Awards: Best Capstone Project; Student Manager in Career Center

SKILLS

Languages/Libraries: Python, Django, HTML, CSS, Javascript, React, Haskell, Pandas, Numpy, SQL, Bash
Cloud Technologies(AWS): EC2, EMR, IAM, S3, RDS, Cloudfront, API gateway, ECS, Lambda, RDS, VPC, Route53
Infrastructure as Code: Cloudformation, Terraform
Certifications: AWS Certified Solutions Architect - Associate, Meta Back-End Developer Professional Certificate

PROJECT EXPERIENCE

Restaurant Management | URL | GitHub Link | Python, Django, HTML, CSS, JavaScript, AWS EC2, RDS   Fall 2023
- Developed a full-stack website for restaurant management with user-friendly interface with HTML, CSS, and JavaScript and Django partials ensuring a responsive and engaging user experience.
- Utilized Django Modelforms, Generics to build robust back-end functionalities, including menu display, table reservation system and live updates of reservation details.
- Implemented interactive UI components for users to easily book reservations, select preferred dining times, and view availability and prevent duplicate reservations using REST API's, DOM manipulation and localstorage.
- Deployed and configured application on AWS Cloud leveraging EC2 and RDS(MySQL); Oversaw the security aspects by isolating sensitive data as environment variables, setting up security groups and VPC in AWS.

Bioreactor Dashboard | URL | GitHub Link | Python, Pandas, Dash, HTML, CSS, Docker, Postgres   Spring 2023
- Built a Python-Dash interactive web-based data visualization application to monitor metrics like temperature, pH, pressure, oxygen% of a Bioreactor streaming from Postgres DB and deployed on AWS EC2
- Stylized application using HTML and CSS, further implemented interactive features for users to select the time window and hot reloading
- Configured application to run as python package automatically leveraging python entry points
- Containerized the application and Postgres DB and further leveraged Docker-compose to abstract and run the application underneath

Survival Prediction Using Logistic Regression | GitHub Link | Python, Pandas, Numpy, Pyplot, Scikit-learn   Fall 2022
- Built machine learning model to predict passenger survival in the Titanic shipwreck using Kaggle simulated dataset
- Formulated insights and identified trends over different metrics using Pandas and Pyplot; model achieved 80% accuracy surpassing 86% of contestants

PROFESSIONAL EXPERIENCE

Platform Engineer, Quantiphi Inc. - Kerala, India   Feb 2021 - Aug 2022
- Key player in management of Cloud Data Lake and infrastructure. Created cloudformation scripts, CICD pipelines, scripts for data migration, documentation, configurations, lifecycle policies, configured monitoring and alerts to facilitate 2 critical insurance projects to process insurance claims within 24 hours
- Migrated and upgraded on-prem data lake to AWS cloud totalling up to 100 Terabyte serving 200+ ETL pipelines; responsible for data migration, deploying, configuring, and running sanity tests on new environment
- Automated deployments aiding with practices of CICD leveraging AWS cloudformation and codepipeline enabling complete infrastructure(AWS S3, EMR, RDS-MySQL) redeployments from scratch in 45 minutes
- Led a Proof of Concept (POC) initiative to decouple data lake components, allowing the addition of multiple Hadoop clusters(AWS EMR) to run in parallel, enabling seamless scalability for terabyte-scale data ingestion; as a solution for temporary clusters for priority jobs

Associate Software Engineer, KeyValue Software Systems - Kerala, India   June 2018 - March 2020
- Architected cloud-native applications and resilient infrastructure on Amazon Web Services for 2 major projects; e-commerce and edu-tech
- Developed CICD pipeline and terraform scripts from scratch for dockerized node backend application leveraging AWS codepipeline, codebuild, AWS ECS, AWS S3, and AWS Cloudfront

ACHIEVEMENTS

- **Team Lead and Winner: Google - Govt of Kerala - Map My Home 2.0**; led team of 20, Developed strategic roadmaps to target. Drove more than 10,000 contributions and made an impact on community by bringing more than 13000 places online