

Akash Mohanasundaram

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EDUCATION

The University of Texas at Dallas, United States

Masters of Science in Computer Science

Aug 2021 - May 2023

GPA: 3.48/4

Sri Venkateswara College of Engineering, Chennai

Bachelor of Engineering, Electronics and Communication Engineering

Aug 2017 - May 2021

GPA: 8.78/10

EXPERIENCE

Mouser Electronics

Mansfield, Texas

Web System Administrator I (Python, Grafana, Docker, Redis, Flask, MSSQL, MYSQL)

Jul 2023 - Present

- Developed a dockerized application in which Python automation scripts maintain a file sync between Azure and On-Prem Servers in Mousers Content Delivery Network.
- Dockerized legacy application that initially fully handled cache clears of Files in Akamai.
- Built a web application enabling the marketing team to clear cache for all component images in Netstorage.
- Deployed monitoring scripts across a network of 600 servers, capturing crucial server statistics and netstat details and updated all the details in the database.
- Built an automation script that interacts with the freshservice api to automatically solve certain types of tickets.
- Developed a web application for the Ops team to monitor the real-time status of all on-premises servers through database logs, view detailed server metrics and manage user permissions for all groups within the Internet Business Department, streamlining administrative tasks and improved operational efficiency.
- Made Azure Dev Ops Ansible Pipelines for all my UI's and deployed the docker images to 3 separate servers for High Availability and Fault Tolerance.
- Implemented Zabbix for automated monitoring, ensuring swift responses to application degradation.

Mouser Electronics

Mansfield, Texas

Web Operation Intern (Python, MsSQL, Graphana, Zabbix, Web Programming languages)

June 2022 - May 2023

- Migrating legacy PHP code to Python which removes scaling issues for the existing application and synchronizes millions of files between On-Prem servers and Akamai.
- Migrated the application data from MYSQL to MSSQL and Redis .
- Developed an application to monitor the IBM MQ of Mouser customer orders and report on the details.
- Made a Graphana dashboard with the data received from all the automation scripts and also added zabbix triggers as necessary.

ACADEMIC PROJECTS

Email Classifier | (Flask, Mongo, React, Docker, Decision Tree, Python)

Jun 2023 - Aug 2023

- * Created email classification system using decision tree classifier.
- * Integrated ChatGPT for labeling unknown categories and enhanced accuracy with decision tree classification.
- * Integrated the results with react frontend and backend in Python Flask, utilized JWT for authentication and MongoDB for storage.
- * Containerized the modules and created docker images, docker compose setup for easy deployment.

Resume Parser | (React, Python, MSSQL)

Jan 2023 - Feb 2023

- * Designed and implemented a resume parser for the HR department during an intra-company hackathon.
- * Developed a system where HR can input job requirements, and uploaded resumes are automatically analyzed to determine candidate suitability.
- * Optimized parsing logic to ensure accurate keyword matching and reduce false positives in candidate evaluation.

Airport Management System - Database Design (Python, MySQL)

Jan 2022 - May 2022

- * Developed a Airport management application database in MySQL Workbench via data requirement analysis.
- * Created a UI to display all facets of an airport administrator.
- * Created tables, functions, triggers and stored procedures to support the application's functionalities.

TECHNICAL SKILLS

Languages: Python, JavaScript, Bash Scripting, PowerShell, SQL, C Sharp, C/C++

Frameworks Node JS, PySpark, Docker, Flask, Ansible, OpenCV

Web Technologies: React, RESTful, HTML, CSS

Databases: MySQL, MSSQL, Redis

Developer Tools: Git, Linux, Docker, Visual Studio Code, Postman, Freshservice, Azure DevOps

CERTIFICATIONS

Azure: Microsoft Certified: Azure Fundamentals **AZ-900**