Medha Kalkur

Salt Lake City, UT, USA medhakalkura@gmail.com https://www.linkedin.com/in/medha-k-7690a016a/
https://medhakalkura.github.io/

EDUCATION

Master of Science, Computer Science 08/2022 – 05/2024
University of Utah Salt Lake City, USA

Bachelor of Engineering, Computer Science 08/2016 – 09/2020
JSS Science and Technology University Mysore, India
CGPA: 9.70

SKILLS

- Programming Language: C++, C#, Python
- Environments: Visual Studio, Jupyter Notebook, Git, Linux
- Web Development: HTML, CSS, Javascript, PhP
- Database: SQL, Vertica
- Cloud Experience: MS Azure

PROFESSIONAL EXPERIENCE

Software Engineer II 02/2022 – 06/2022
MicroFocus Bangalore, India

- **Azure Web-hook alert integration to OBM for Common and Non-Common Schema**
  - Developed a feature for receiving all the common and non-common Azure web-hook alerts and forwarded them to OBM UI using REST calls.
  - Improved user experience by classifying the received REST response into detailed alert events so that customers can view the performance scales graphically.

Software Engineer I 08/2020 – 01/2022
MicroFocus Bangalore, India

- **Azure Storage account monitoring and Azure VM Discovery Enhancement**
  - Implemented a feature for aligning Azure Storage account monitoring with the enhanced monitoring framework. This involved migrating existing code to generic REST based data collection framework.
  - Resolved show stopper issue on Azure VM primary DNS discovery conflict issue.
- **Optic data lake integration for Management packs**
  - Implemented the Custom Metric Ingestion tool which converts agent DB tables to Vertica readable JSON files.
  - Created VSQL queries for post load data processing. The queries would aggregate (Hourly, Daily) the raw data.

Software Development Intern 01/2020 – 07/2020
MicroFocus Bangalore, India

- **Optic DL integration for Prometheus Connector**
  - Involved in the PoC development of Optic DL integration solution. Responsible for schema creation, BVD dashboard creation.
- **Python Automation using Selenium library**
  - Designed and developed python scripts for Continuous hours of Operation testing. The script simulates application load on WebLogic Application Server by continuous login, messaging, user profile switch, logout operations.

PROJECTS

Indian Sign Language Interpreter

- Designed and built an interpreter for conversion of Indian sign language to English alphabets using Image processing models and Convolution neural network with **85% accuracy.**
- Transformed the text output to corresponding audio output to assist visually impaired people in communicating.

DBMS project on Waste management System

- Developed a website for purchase and sale of waste products with door-to-door service with HTML,CSS and PhP. Wastes ranging from biodegradable to non-biodegradable can be managed using this website.

Hackathon registration Website

- Built and hosted a hackathon registration website(hackelite2k19.org) for national level hackathon conducted as a part of college student club LCC(Linus Campus Club).
- Enhanced LCC website to accommodate alumni details and upcoming hackathon details in the event registration page.

Finger-Print recognition system using OpenCV and Python

- Developed a Digital Image Processing model for processing human fingerprint images for authentication purposes with 91% accuracy. This method is used for fingerprint-based unlocks and biometric authentications.