

# Medha Kalkur

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🔗 <https://medhakalkura.github.io/>

## EDUCATION

**Master of Science, Computer Science**  
*University of Utah*

08/2022 – 05/2024  
Salt Lake City, USA

**Bachelor of Engineering, Computer Science**  
*JSS Science and Technology University*  
CGPA: 9.70

08/2016 – 09/2020  
Mysore, India

## SKILLS

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

## PROFESSIONAL EXPERIENCE

**Software Engineer II**  
*MicroFocus*

02/2022 – 06/2022  
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**  
*MicroFocus*

08/2020 – 01/2022  
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**  
*MicroFocus*

01/2020 – 07/2020  
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**.

**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.

**Hackathon registration Website**

- Built hackathon registration website ([hackelite2k19.org](http://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.