JAMEELAH N. MERCER

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Summary

Detail-oriented and innovative IT professional with 5+ years of experience in engineering, DevOps, and data analytics. Adept at providing comprehensive technical and administrative support in virtual environments. Committed to leveraging my skills and expertise to enhance technology operations and deliver effective solutions to complex challenges..

Skills

Programming Languages: Python | SQL | Java | MATLAB | Linux | Git | TensorFlow | YAML

Data Visualization: Matpoltlib | Jupyter | Pandas | Excel | Google Charts | CAD | Tableau

Monitoring and observability: Prometheus | Grafana | Elasticsearch | Kubernetes | Docker

Professional Experience

Lawrence Berkeley Laboratory- National Energy Research Scientific Computing Center 2019 - 2021 Berkeley, Ca

DevOps Intern

- Built and maintained a data and reporting infrastructure using Grafana and SQL to provide real-time insights into the integrity and efficiency of the supercomputer data infrastructure with 125+ TB of data
- Designed a graphing, monitoring, and 3D visualization tool used for intelligent monitoring and alerting
- Set up and managed Docker containers running PHP applications for deployment into Kubernetes Pods
- Collaborated with 6+ senior network engineers, software engineers, and the engineering manager to define release management processes

University of California Berkeley, Berkeley Sensor and Actuator Center 2017 - 2019 Berkeley, Ca

Visiting Researcher

- Executed hardware tests with oscilloscopes, acquisition units, DMMs, and analyzers, relying on extensive knowledge of analog and digital principles
- Analyzed novel sensors to determine the instantaneous direction of power flow in commercial power systems with intermittent sources
- Designed schematics for circuits analysis
- Assembled and tested performance of magnetic field sensors using a micro-controllers
- Conducted data and research analysis using MATLAB and AutoCAD

Lawrence Berkeley National Laboratory 2015 - 2017 Berkeley, Ca

Research Assistant

- Analyzed indoor air quality to characterize microfluidic sensors for airborne particles
- Assembled and tested the performance of components of a partial sensor
- Conducted data analysis of particulate matter with Excel
- Preparation of relevant experimental results using Google Charts, PowerPoint, and Excel

Extracurricular Activities and Project Experience

Circuit Launch Summer -2022 Oakland, Ca

Internship

- Built a miniature autonomous car and collected data using computer vision
- Trained a Convolutional Neural Network using Keras, python programming and tensorflow
- Implemented a deep learning autopilot using a Behavioral Cloning (Imitation Learning) technique
- Tested and troubleshoot any diagnostic issues with robotic hardware and software
- Wrote, edited, and formatted technical documentation for machine learning models and software

DSL4SCI (Deep Learning School for Science) 2019 & 2020 Berkeley, Ca

Lawrence Berkeley National Laboratory

- Brought together researchers and engineers for lectures and tutorials on state-of-the-art deep learning methods and best practices for running deep learning on high-performance computing systems
- Provided opportunities to connect with other students and scientists with a shared interest and discuss how the latest advances in learning algorithms can be used for their science

High Performance Computing Club 2018 - 2019 Berkeley, Ca

Member

- Competed at the SC18 International Conference for High Performance Computing, Networking, Storage, and Analysis
- Built and maintained a miniature super-computing cluster using git, linux, python, and bash commands
- Configured and complied a free, open-source software called Horovod to distribute deep-learning training using TensorFlow, Jupyter Notebook, Matpoltlib, and Linux

Education

Bachelor's of Science- Applied and Computational Mathematics San Jose State University- 2022-2024

Minor Computer Science

Associates of Science- Mathematics Berkeley City College - May 2021