SHAIK MOHAMMED SUHAIL

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SKILLS

Languages: Python, Pandas, NumPy, Java, C#, Javascript , Docker, Bash script, Ansible and Git.
Frameworks and IDEs: Eclipse IDE, SpringCloud, Django, Nodejs, React, AngularJS.
Cloud and Networking: AWS, Google Cloud, Azure and Protocols such as OpenSSH, FRP, SFTP.

CERTIFICATION

Cisco Certified Network Associate (CCNA).
ISO QMS Auditor Certification.

EDUCATION

M.Sc: Engineering Science Focus on Internet of Things, University at Buffalo, The State University of New York, January 2024
Participated in Independent Study to optimize VNC Docker orchestration, achieving 20% faster deployment & improved connectivity.

M.Sc: Network Management and Cloud Computing, Middlesex University Dubai, June 2022
Conducted research work for comparing performance between different Big Data processing systems (Apache Drill, Apache Spark with YARN).

B.Tech: Electronics and Communication Engineering, Jawaharlal Nehru Technological University, October 2020
Engineered Home Automation System with Arduino, was 25% cheaper than other similar products.

RELEVANT COURSEWORK

Big Data Analytics, Enterprise Network Troubleshooting , Data Structures, Artificial Neural Networks, Cybersecurity.

EXPERIENCE

Research Assistant, University at Buffalo (UB WINGS), Buffalo, NY: July 2023 - Present

- Thoroughly analyzed prerequisites, significantly expediting the Unionlabs project by 20%.
- Fostered teamwork, proactive engagement, transparent communication, achieving milestones 10% ahead of schedule.
- Employed user insights, seamlessly integrating novel features to elevate experience and enhance project relevance by 25%.
- Continuously monitored project dynamics and user feedback, leading to a 20% reduction in software glitches and an enhanced user satisfaction rating of 15%.

IT Commissioner, Black Arrow Qatar, Doha,Qatar: March 2022 - August 2022

- Utilized Command Line interfaces for Cisco, Avaya, and Extreme devices, yielding 10% project efficiency boost.
- Collaborated on deploying routers, switches, firewalls, and load balancers, offering remote IT support.

PROJECTS

Web-based Radio Device Access Optimization using VNC Docker Containers (SUNY Union Labs): Ansible, Nodejs, Express, Bash, GIT, MongoDB, Redis

- Spearheaded the development of a robust web interface enabling seamless remote access to USRP devices to function as a Platform as a Service (PaaS) by leveraging docker containers .
- Implemented MongoDB integration to facilitate real-time updates of USRP device statuses and secure storage of user data within Docker containers, ensuring optimal performance and scalability.
- Orchestrated seamless integration with a Redis server to streamline user authentication and registration processes, leading to a notable 10% reduction in query response time and authentication overhead.
- Collaborated closely with cross-functional team members and mentor to conceptualize and deliver cutting-edge solutions, with a strong emphasis on security and efficiency in line with industry best practices.
- Maintained a robust code base and Git repository, employing advanced workflows and bash scripts to streamline deployment processes and efficiently manage dependencies and file distribution across new EC2 instances.
- Developed highly optimized Docker orchestration scripts utilizing Ansible, enabling rapid deployment of user-specific requirements, resulting in a significant 20% reduction in deployment time.
- Devised Dockerfiles incorporating iptables (firewall software) to strictly enforce device restrictions, safeguarding against unauthorized access to other USRP devices and reinforcing security measures.

Weather App : Django, React, Bootstrap, Docker

- Created a weather app that uses Django to fetch data from the API and forwards it to React
- Used React-Bootstrap to provide a better user experience.
- Developed a CI/CD pipeline reducing the testing and deployment time by 40% using GitHub workflows.