

MIR HYDER ALI

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Professional Summary

HPC Operations Engineer with 3+ years of experience across IT, cloud platforms, and large-scale GPU clusters. Expert in Tier 2 operational support, 24x7 incident response, and performance optimization for AI training/inference environments. Deep technical proficiency in Kubernetes orchestration, Slurm workload management, and Blackwell (GB200) server architectures. Skilled in resolving complex hardware, firmware, and high-speed fabric issues (NVLink/InfiniBand) to ensure maximum system availability and reliability.

Experience

AI HPC/Infrastructure Lead Engineer

May 2023 – Present

Wistron

Texas, USA

- Direct Tier 2 operational support and 24x7 incident response for high-performance AI server clusters, ensuring rapid triage and resolution of site-impacting hardware and software events.
- Manage and optimize HPC software stacks including Kubernetes and Slurm to drive efficient workload distribution and maximize resource availability for GPU-intensive applications.
- Perform detailed system validation and troubleshooting for Blackwell (GB200) architectures, focusing on NVLink connectivity, PCIe Gen5/6 topologies, and silicon-level performance bottlenecks.
- Leverage DCGM, nvidia-smi, and NCCL tests to run GPU diagnostics and validate collective communication primitives across global GPU fleets.
- Automate hardware health monitoring and response alerting by integrating Redfish/IPMI telemetry into Prometheus and Grafana visualization pipelines.

IT Specialist, Graduate Assistant

Jan 2023 – May 2023

Lewis University

Illinois, USA

- Managed campus-wide IT infrastructure and Tier 2 escalations via TeamDynamix, supporting enterprise-level network access and system administration.
- Optimized user authentication protocols and security policies through Active Directory and MFA configuration management.

Technical Skills

HPC & Infrastructure: Kubernetes, Slurm, Blackwell (GB200/GB300), H100, BMC/Redfish/IPMI, DCGM, NCCL Tests.

Networking & Storage: InfiniBand Networking, NVLink, TCP/IP, DNS, DHCP, VLAN, VPN, Cisco Networking (CCNA In-Progress).

Cloud & DevOps: AWS (EC2, S3, IAM), Microsoft Azure, Docker, Jenkins, Git, CI/CD, Ansible, Prometheus, Grafana.

Programming & Systems: Python, Bash, C, Linux (Ubuntu/CentOS), Windows Server, VMware, Active Directory.

Monitoring: Wireshark, Postman, TeamDynamix, Slack Integration, REST APIs.

Education

Lewis University

Dec 2023 – May 2025

Masters in Computer Science

Romeoville, IL

Lords Institute of Engineering and Technology

2019 – 2022

Bachelors in Engineering

Hyderabad, India

Research & Certifications

- **Research:** "Generative AI for Software Testing" published in ITNG Conference; leveraged AI to automate complex test case generation and enhance software reliability.
- **CompTIA A+:** Certified (Aug 2023).
- **In-Progress:** Cisco Certified Network Associate (CCNA), AWS Certified Cloud Practitioner.