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MAYANK PANJIYARA
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EDUCATION

Singapore	National University of Singapore	Aug 2020 – May 2024
• Bachelor's (Honours) in Computer Engineering, GPA: 4.09 • Relevant Courses: Advanced Computer Networks, Linux Kernel, Robotics, Data Structures and Algorithms, Real-Time Operating Systems, Parallel and Concurrent Computing		

WORK EXPERIENCES

Windows Infrastructure Engineer	Micron	Oct 2024 – Present
• Manage Windows Server infrastructure across 15+ data centers in Asia and the USA, providing L3 escalation support for complex production issues. • Provide global 24/7 on-call support, resolving high-priority incidents to prevent manufacturing impact. • Lead a multi-year OS refresh initiative for 2,300+ Windows servers across Singapore, leveraging automation to reduce upgrade duration by 30% and deliver zero critical outages. • Lead the migration of 600+ VMs from VMware ESXi to Nutanix AHV, collaborating with global application teams to ensure seamless cutover. • Automate OS and cluster operations including server rename, retirement, health checks, policy sync, VM migrations, and policy assignments, saving 100+ hours per month. • Deploy, monitor, and troubleshoot virtual and physical infrastructure across UCS, Lenovo, Dell, VMware, and Nutanix, including high-availability and failover configurations. • Deploy 10+ Nutanix hyper-converged clusters (70+ nodes) across Singapore data centers, covering rack planning, node provisioning, and cluster build. • Develop dashboards and alerting in Splunk and OpsRamp, improving observability and enabling proactive incident response.		
Software Engineer	Tensorplex Labs	Mar 2024 – Jun 2024
• Contributed to the backend development of our Bittensor subnet, a decentralised machine learning network on Polkadot chain. • Designed and implemented data pipelines using Airflow for automating web data scraping and preprocessing, increasing data collection efficiency by 90%. • Researched and applied state-of-the-art (SOTA) techniques on LLMs to improve synthetic data generation, boosting data diversity by 30x.		
Software Engineer Intern	Keysight Technologies	May 2023 – Nov 2023
• Transitioned 12 internal Spark Batch Jobs written in Scala from client to cluster mode, improving performance by 24% and reducing resource utilization by 32%. • Configured Apache Airflow using Kubernetes and Docker to manage 1000+ daily batch job runs, achieving improved reliability and observability.		
Cloud Engineer Intern	Singtel	May 2022 - Aug 2022
• Supported a major cloud migration to Azure by conducting POCs on core apps for various cloud migration strategies. • Optimized legacy code refactoring by identifying an application for code analysis, achieving a 93% reduction in refactor time.		
Teaching Assistant	National University of Singapore	Jan 2022 - May 2024
• Mentored 150+ students in Real-Time Operating Systems, Robotics and Internship modules over 6 semesters.		

SKILLS

- Languages: Python, Powershell, Bash, C/C++, Java
- Skills: VMWare, Nutanix, Scripting, Windows Administration, Openshift, Unix/Linux, Servicenow, ITIL, Splunk

PROJECTS

Project RICE, Google Developer Society

- Collaborated in a team of 30 to develop a comprehensive **volunteer management system** for a non-profit organization, streamlining volunteer coordination and task assignment. Implemented MVCS architecture using **Typescript, Express.js, and MongoDB** and designed **RESTful APIs**

Geofencing, Engineering for Good Society

- Developed a portable Bluetooth Low Energy 5.0 (**BLE**) **GPS** solution for real-time tracking of over 100 specially-abled students at Rainbow Centre School, integrating **MQTT, AWS, Firebase, and Python**. Replaced manual CCTV monitoring with a cloud web application, significantly improving monitoring and incident response time.

LaserTag++ (Capstone Project)

- Capstone Project: Designed a two-player laser tag game with AI hand actions in a team of five. Managed multi server-phone communication using **Python** with **TCP/IP, MQTT, Threads, and Queues** for concurrency.

Coding Competitions

- Won 6th Place and Best Design in MindfulHacks 2021 for a mental-health app to match Psychologists and Care-givers
- Semi-finalist in NUS Blockchain Hackathon 2022 for developing a website to create NFTs without technical expertise

CERTIFICATIONS

- Nutanix Certified Associate (NCA)
- Nutanix Certified Professional - Artificial Intelligence (NCP-AI)
- Nutanix Certified Professional - Multicloud Automation (NCP-MCA)