CALLUM MAYSTONE

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# Summary

I am a solution-driven professional with a robust background in **cloud architecture**, **AI integration**, and **enterprise systems**. Over the past few months, I have rapidly expanded my technical expertise by designing and developing multiple projects, including an **AI-powered trading bot**, a **cloud-based healthcare platform**, and a **satellite performance estimator**—each project completed from concept to execution in a short time frame. My ambition is to leverage these skills in roles that demand high-impact, scalable solutions, while contributing to innovative projects across diverse sectors.

## Recent Projects

### AI Framework - Relational Graph Networks (RGNs) and Active Graph Networks (AGNs)

A pioneering AI framework that structures and visualizes complex data relationships, enabling contextual understanding for more precise AI applications.

* **Technologies Used**: Graph databases, PyTorch, MUI for web visualization, Azure infrastructure
* **Key Contributions**: Developed the foundational AI framework to model real-world relational data, creating scalable, queryable, and structured networks. Integrated advanced machine learning models with engineered data sources for dynamic predictive analysis.
* **Skills Demonstrated**: AI model development, graph neural networks, enterprise cloud architecture, data engineering, visualization, and integration

### OpenEYE - Legal Document Analysis Platform

A pioneering AI framework that structures and visualizes complex data relationships, enabling contextual A web-based AI tool designed to analyze legal documents in real-time, visualize complex relationships, and identify areas of legal exposure.

* **Technologies Used**: Relational Graph Networks (RGNs), Natural Language Processing (NLP), web scraping, Azure infrastructure
* **Key Contributions**: Built an AI-powered platform for real-time legal document analysis, leveraging RGNs for a comprehensive understanding of legal relationships. Designed a multi-domain reasoning engine that breaks down clauses and links related policies and precedents.
* **Skills Demonstrated**: AI contextual analysis, NLP, graph neural networks, cloud-based web app development, and legal data analysis

### YouMatter – Cloud-Based Healthcare Platform

A web-based Patient Administration System (PAS) and Electronic Health Record (EHR) platform designed to streamline hospital workflows and improve patient care.

* **Technologies Used**: Azure, AI integration, cloud security (Azure AD, Azure Key Vault)
* **Key Contributions**: Designed a scalable, secure platform for real-time data analytics, with future AI-driven insights for diagnostics.
* **Skills Demonstrated**: Cloud architecture, enterprise solutions, healthcare IT, AI integration, end-to-end product development

### AI-Powered Trading Bot

Developed an AI-driven trading bot using deep neural networks to perform predictive market analysis and automate trading decisions.

* **Technologies Used**: Python, Azure, Deep Neural Networks, real-time data integration
* **Key Contributions**: Designed and deployed a scalable cloud infrastructure for real-time market data, enabling automated trading decisions.
* **Skills Demonstrated**: Machine learning, algorithm development, cloud architecture, real-time data processing

### MySl.app – Satellite Performance Estimator

A satellite performance tool that estimates LEO satellite connectivity based on user location, built in under 12 hours as a proof of concept.

* **Technologies Used**: Real-time data processing, mapping APIs, public satellite tracking (TLE data)
* **Key Contributions**: Conceptualized, developed, and launched the tool in record time, demonstrating agility in full-stack development.
* **Skills Demonstrated**: Rapid prototyping, full-stack development, emerging tech, real-time data processing

## Key Skills

* **Cloud Architecture & Services**: Proficient in designing and deploying solutions across Azure, AWS, and Google Cloud, specializing in cloud-native applications, hybrid cloud strategies, and automation using Terraform.
* **Development & AI**: Strong skills in Python, machine learning, and AI system development with hands-on experience in building predictive models and AI-powered tools.
* **Automation & DevOps**: Expertise in automating infrastructure using PowerShell, PowerCLI, Jenkins, and Azure DevOps, focusing on CI/CD pipelines and Infrastructure as Code.
* **Healthcare Systems**: Developed cloud-based EMR systems, focusing on real-time data analytics, AI integration, and secure data management.
* **Security & Compliance**: Extensive experience in secure network design, Zero Trust security, and compliance frameworks such as HIPAA and NIST.
* **Rapid Prototyping**: Demonstrated ability to quickly conceptualize, develop, and deploy functional applications within tight deadlines.

## Ambitions

My goal is to drive impactful solutions by applying my deep technical expertise and creative problem-solving abilities. I’m looking to collaborate on projects that demand innovation, scalability, and rapid delivery, particularly in sectors such as healthcare, finance, and emerging technologies.

# Professional Experience

Founder and Developer | July 2024 – Present
YouMatter – Innovative PAS/EHR Solution

YouMatter is a web-based Patient Administration System (PAS) and Electronic Health Record (EHR) solution designed to enhance operational capabilities in healthcare. My role includes:

* **Product Development**: Conceptualized and developed the YouMatter platform, focusing on real-time data analytics and workflow efficiency.
* **Technical Configuration**: Integrated Azure Active Directory for secure authentication and Azure Key Vault for data security, ensuring compliance with **HIPAA** and **GDPR** standards.
* **AI & Machine Learning Integration**: Implemented Azure AI services for enhanced patient management and decision-making capabilities.
* **Market Strategy**: Conducted competitive analysis and developed partnerships, including potential collaborations with Starlink for enhanced connectivity in healthcare settings.

Developer | July 2024 – Present
AI-Powered Trading Bot

In this self-initiated project, I developed an AI-driven trading bot leveraging Python and Deep Neural Networks (DNN) for predictive market analysis.

* AI & Machine Learning: Applied DNN to develop and refine predictive models, automating buy/sell decisions based on real-time data.
* Cloud & Data Pipelines: Built scalable cloud infrastructure using Azure to handle real-time data streams and ensure rapid response times.
* Innovation & Execution: Transitioned from non-developer to building complex AI systems within two months, highlighting my rapid learning and execution abilities.

## Solution Architect | Jan 2024 – Present

### Mater Group (Medical) – Contract

As a Solution Architect at Mater Group, I led the design and implementation of several high-value projects, focusing on Citrix, Azure AD, Office365, VMware/VxRail for our Enterprise VDI environment, and meeting PCI obligations for securing credit card data. My work involved:

* **Technical Architecture and Delivery**:
	+ End-to-end solution design for system lifecycle upgrades and platform migration.
	+ Identification of system/network requirements for technical project design.
	+ Creation of Technical Design documentation and stakeholder engagement.
	+ Migration of workload from EoL Nutanix Cluster to VxRail cluster.
* **Cybersecurity**:
	+ Design and implementation of new standard user password policies based on NIST requirements.
	+ Proactive vulnerability mitigation and responding to cybersecurity threats.
	+ Real-time reporting during cybersecurity incidents, facilitating coordination and vulnerability mitigation.
* **Citrix and VMware Administration**:
	+ Led the upgrade and expansion of Citrix environments, including Citrix Cloud hybrid tenancy with 3500+ VDIs.
	+ Automation of VMware provisioning and management using PowerCLI/Powershell.
	+ Managed VxRail clusters, performing upgrades and maintenance tasks.

## Technical Lead / Team Leader | March 2022 – June 2023

### Mater Group (Medical) – Contract

* Led a team of 8 in managing Citrix, AzureAD, Office365, VMware/VxRail environments.
* Delivered several high-value projects, focusing on system lifecycle upgrades, platform migration, and PCI compliance.

## Senior Engineer | June 2023 – March 2022

## Australian Retirement Trust – Contract

* Provided architectural strategy for Citrix migration to hybrid-hosting.
* Managed Azure resources, Citrix PVS/MCS images, and security vulnerabilities in alignment with the NIST framework.

## Senior Analyst / Incident Management | April 2021 – March 2022

### Boeing / Dell (Defence / Aerospace) – Contract

At Dell, I managed critical infrastructure and incident response in highly secure environments, ensuring compliance with stringent security requirements.

* **VMware/VxRail Administration**:
	+ Managed multiple VxRail clusters, including migration of machines, performing upgrades, and vulnerability remediation.
	+ Automated tasks using vRA/PowerCLI and managed ESXi networking infrastructure.
	+ Conducted server and template builds/deployments following strict security compliance guidelines.
* **Backup and Security Management**:
	+ Configuration and management of Data Domain and Networker backup solutions.
	+ Developed patching plans to remediate vulnerabilities across 450+ Windows Servers.
	+ Implemented security enhancements, including Veeam backup configurations and firewall administration.

## Systems Engineer | March 2020 – April 2021

### Mater Group (Medical) – Contract

* VMware and Nutanix Administration:
	+ Managed VxRail and Nutanix clusters, performing upgrades, migrations, and DR testing.
	+ Automated VMware provisioning/clean-up tasks with PowerCLI and managed legacy Nutanix environments.
* Cloud and Citrix Administration:
	+ Developed and administered Citrix Cloud environments, including Citrix Cloud IAM and License management.
	+ Handled Azure AD, Office365, MDM, and Intune administration.

## Systems Engineer Citrix | December 2019 – March 2020

### Flight Centre – Contracted through Fujitsu

* **Citrix Migration and Automation**:
	+ Assisted with a Citrix migration project, developing PowerShell scripts to automate processes.
	+ Audited and cleaned up servers, providing reports and data points for migration.

## Systems Administrator | July 2019 – December 2019

### UniQuest (Financial / Technology) – Short Term Contract

* Infrastructure and High Availability:
	+ Planned and implemented a secondary data center for site resilience.
	+ Designed and deployed a high availability network leveraging DirectAccess for disaster recovery.
* Cloud and Windows Administration:
	+ Managed Azure Active Directory, MDM, and Intune.
	+ Deployed and managed Windows Server 2019 and VMware environments.

## Cloud Infrastructure Engineer (Level 3) | April 2019 – May 2019

### Interactive Pty Ltd (Managed Services)

* **Virtualization and Cloud Administration**:
	+ Administered VMware, cloud Wintel environments, and Microsoft Exchange in hybrid and dedicated setups.
	+ Developed and implemented change management plans and remediation strategies.

## Senior Technical Consultant (AO6) | January 2019 – April 2019

### Queensland Shared Services (State Government)

* **Citrix and Infrastructure Design**:
	+ Provided expertise in Citrix environments, planning migration from XenApp 6.5 to 7.15.
	+ Assisted in file system migration and implemented Citrix Workspace Environment Management (WEM).

## Senior ICT Officer (AO5) | April 2018 – January 2019

### Public Trustee QLD (State Government)

* **Data Center and Systems Administration**:
	+ Managed data center hardware, backups, and failover systems using SRM.
	+ Administered VMware environments, Active Directory, and network security tools.

## Technical Project Officer (AO5) | January 2018 – April 2018

### eHealth QLD (State Government)

* Software Asset Management:
	+ Worked on the MSAM project, configuring data collection for VMware and Active Directory.
	+ Managed change requests, assessed risks, and provided support documentation.

## IT Officer | May 2014 – July 2015

### QCA

* **Client and Network Support**:
	+ Provided face-to-face technical support and managed Active Directory and backup systems.
	+ Conducted network troubleshooting, VLAN configuration, and switch replacement.