Matthew Macdonald

Platform Engineer

Melbourne, (AU)

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in magicmatteo

SUMMARY

Passionate Platform Engineer with 8 years of experience autonomously delivering solutions and maintaining reliable systems. With a solid technical background and an aptitude for problem solving and adaptability, I am driven towards roles that challenge my understanding and provide a constant source of growth.

SKILLS

Systems & Cloud Engineering

CI/CD   Azure   Networking

Infrastructure as Code

Observability   Security

Automation   Scripting

Container Orchestration   IAM

Software Development

C#   Python   Go   PowerShell

Tooling & Platforms

Linux   Docker   Kubernetes

Helm   Terraform   Git

Azure Devops   Dynatrace

NewRelic   OpenTelemetry

Sonarqube

WORK EXPERIENCE (4)

Apr 2024 - Current

Senior Platform Engineer (Contract) at McMillan Shakespeare Group

📍 **Melbourne**

- Built an internal .NET Blazor web app which allows platform team members and devs to quickly and efficiently manage the secrets in their environments

- Tasked with bringing a collection of Azure infrastructure supporting the sales pipeline environments up to platform standards. This requires a deep dive into the existing infrastructure and config (undocumented) to gain a strong understanding of the landscape before recreating it from the ground up using Terraform, while documenting everything along the way and creating playbooks for prod deployment

- Work with dev teams to gather infrastructure requirements and advise them on correct patterns and best practices

- Contribute improvements to the internal Terraform module library

Oct 2022 - Apr 2024

DevOps Engineer at Kolmeo

📍 **Melbourne**

- Reduced total monthly Azure spend by 40% by consolidating app services into modern plans across all environments and other miscellaneous changes

- SME for Kolmeo's self-serve environment platform, built on Kubernetes using Terraform, Helm & scripts. Ongoing maintenance, support, and improvement of the platform

- Instrumented OpenTelemetry within our application – providing dev teams with the ability create vendor agnostic custom traces and metrics
- Modularised our platform layer, enabling multiple versions of it with different use cases and security domains. This allowed rapid creation of dedicated platforms for things like trials/demos and migration dry runs which improved our sales and onboarding pipeline
- Created and maintained an internal web app (Node / Vue.js) for the execution of approved SQL scripts against production DB's – reducing load on data & operations teams
- Using C#/.NET, added MFA config and auditing functionality into our main application. This is an example of real production feature development, including unit tests
- Performance tuning and optimisation of our platform infrastructure, comprising of memory optimised nodes, spot pools, SQL resource pooling, workload scheduling and node autoscaling. This reduced both env creation time and cost by 87% each, coincidently

Nov 2021 - Oct 2022
DevOps Engineer at Business Fitness
📍 **Brisbane**

- Redesigned the infrastructure of an Azure hosted web application, taking it from a point-and-click delivery style to a GitOps structure defined in Terraform, allowing near instant DR
- Overhauled CI/CD pipelines, increasing efficiency and reliability through dependency caching, agent runtime version locking and job concurrency, which increased developer confidence, enabling a higher release cadence
- Implemented dependency vulnerability scanning on pipelines, illuminating multiple critical CVE's, substantially reducing risk and securing the SDLC moving forward through quality gates
- Identified and implemented cloud resource cost reductions, reducing the bill on cost-majority resources by 25%
- Member of the Information Security Working Group, responsible for the implementation and ongoing maintenance of Business Fitness' ISMS, fulfilling requirements of ISO27001
- Instrumental in the diagnosis of multiple production issues, in one case implementing APM tools on the fly to diagnose a buggy message queue publishing method. In another case utilizing Grafana and dotnet debugging tools to discover a thread starvation issue on a Kubernetes deployment that was causing heavy disruption

Jan 2018 - Nov 2021
Systems Engineer at Dean & Co Pty Ltd
📍 **Melbourne**

- Research and development of solutions to new and existing problems across Dean & Co's client base, consulting through the process
- Successfully led and delivered multiple projects across multiple sites
- Implementation and administration of the cloud tenants across Dean & Co's client base
- Architected a solution in Azure with the requirement of a Microsoft SQL server being accessed by IoT devices throughout their sites, inclusive of security best practices
- Implemented an automated device imaging solution, decreasing manual labour by 50% and increasing endpoint reliability by 25%

AWARDS

2023
Be brave, be bold, own it. at Kolmeo
Receiver of the annual award "Be brave, be bold, own it" for driving improvement in CI/CD processes.

INTERESTS

Golf

Chipping Pureing irons

Hitting greens

Fishing

Lure fishing for Bream

Home Renovation

Carpentry Cabinet Making

General improvement