

Matthew Bieda
Cloud / Platform Engineer

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Technical Skills

Cloud & Platform Engineering: Azure, AWS, Kubernetes (AKS, OpenShift, self-hosted), Docker, Linux systems
Infrastructure as Code & CI/CD: Terraform, Ansible, GitHub Actions, Azure Pipelines
Programming & Scripting: C++, C#, Python, Go, JavaScript/TypeScript, Bash, PowerShell
Databases: PostgreSQL, MySQL, SQLite, MongoDB
Tools & Build Systems: Git, Visual Studio, Qt, CMake

Certifications

CKA (Certified Kubernetes Administrator)

AZ-104 (Azure Administrator Associate), AZ-204 (Azure Developer Associate), AZ-900 (Azure Fundamentals)

Experience

Insight Enterprises(EMEA): Site Reliability Engineer

December 2023 - November 2024

- Led deployment of Azure Red Hat OpenShift (ARO) platform using Infrastructure-as-Code (Bicep), including day 2 operations and teammate onboarding.
- Migrated internal Ruby on Rails secret-sharing application from Azure Web App to Kubernetes (OpenShift) through Kubernetes deployment manifests, GitHub Actions and Azure Container Registry; added URL shortening feature.
- Supported migration of .NET client authentication service into the cluster and configured OpenShift Pipelines (Tekton) to manage infrastructure for an exploratory project.
- Developed a Powershell automation to streamline Engineers' interactions with Azure PIM, which required a nuanced understanding of Graph API and Entra ID Governance.
- Resolved various bugs to keep client automations running smoothly and maintain SLAs/SLOs.

Phlexglobal(AmerisourceBergen): Site Reliability Engineer

June 2023 - November 2023

- Operated within SLA-driven SRE team responsible for production availability of PhlexTMF, balancing incident response and automation development.
- Handled database operations (replication, backups, encoding), infrastructure troubleshooting via SSH/RDP, and incidents across cloud-native services including Azure Service Bus and AKS.
- Built PowerShell automation using New Relic's GraphQL API to disable synthetic monitoring during upgrade/maintenance windows, resulting in a huge improvement in our SLA measurements for client uptime.
- Contributed to cost optimization through integration of AI tooling in our AKS clusters that significantly reduced our spend on compute resources. I wrote the Bash script used to apply the service to each client and helped install the tool into Kubernetes.
- Investigated and resolved stability issues in RabbitMQ and Redis, identifying configuration and caching defects impacting production reliability.
- Adjusted monitoring in New Relic to reduce noise on support rotas, allowing us to focus on important issues where we could add business value.

Insight Enterprises(EMEA): Site Reliability Engineer

June 2022 - June 2023

- Built automation and infrastructure solutions for a large global client leveraging ServiceNow, Ansible Tower and Azure.
- Developed an internal secure data-sharing web application based on open-source tooling used to generate & send secrets for client automation requests and internal teams. I gained practical experience with container deployments on Azure and configuring Github Actions CI/CD workflows.
- Assisted with Ansible automation that detects and removes orphaned cloud resources within a client's public cloud tenant, saving them over €500,000 a month.
- Designed a CI/CD pipeline leveraging Terraform and Github Actions for a cloud-agnostic monitoring project.
- A presentation based on our infrastructure won Best Partner Presentation at Red Hat Tech Exchange 2023 in Dublin.

The Software Institute: Cloud Engineer

April - June 2022

- Completed intensive DevOps training covering cloud infrastructure, CI/CD pipelines, and enterprise engineering practices.

Projects

[PolishCore - Language Learning App \(C++ / Qt\)](#)

A Polish vocabulary learning app with 1200+ curated flashcards, spaced repetition, and Azure-powered TTS audio.

[VKEngine - Vulkan Rendering Engine \(C++20\)](#)

Modern Vulkan-based rendering engine built from scratch to explore real-time graphics systems and GPU architecture.

[GraphVis - Algorithm Visualization Tool](#)

Interactive visualisation tool for graph algorithms including Dijkstra, A*, Bellman-Ford, Prim, and Kruskal with step-by-step execution.

[jp-translate - Neural Machine Translation System](#)

Open-source Japanese ⇌ English neural machine translation system using OpenNMT, deployed with Docker and Streamlit. Achieved near-commercial translation quality under a <£100 compute budget.

[Microservices in Kubernetes - Distributed Systems Project](#)

Distributed microservices system for video-to-MP3 conversion.

Built with Kubernetes(Minikube, k9s, Docker Hub), Python(Flask), MySQL, JWT auth, MongoDB(GridFS) and RabbitMQ.

Education

Queen Mary University of London - MSc Computing and Information Systems (Distinction - 80%)

Dissertation title: Refining the state-of-the-art in Machine Translation, optimizing NMT for the JA <-> EN language pair by leveraging personal domain expertise.

University of Sheffield - BA Japanese Studies (2.1 Honours)

Including exchange year at Seijo University (Tokyo, Japan)

Dissertation title: Re-evaluating the role of Industrial Policy in Japan's "Economic Miracle" 1955-1973