

# Ariff Azman

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## Summary

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DevOps Engineer with 5+ years of experience in automating infrastructure, optimizing CI/CD pipelines, and managing cloud platforms (AWS, Azure). Proficient in Infrastructure as Code (Terraform) to build scalable, secure, and efficient systems. Skilled in reducing manual processes, enhancing deployment workflows, and improving system reliability through monitoring. Focused on accelerating development cycles and operational efficiency.

## Skills

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Automation, IaC, Infrastructure, CI/CD, Scripting, Cloud, AWS, Azure, Microservice, Serverless, Backend, Optimization, Containerization, Virtualization, Monitoring, Source Control, Configuration Management, Game Development, Leadership

## Experience

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### Ammobox Studios | Subang Jaya, Malaysia

#### DevOps Lead | 09/2022 - Present

- Spearheaded AWS cloud adoption with Terraform as Infrastructure as Code, standardizing cloud resources across 4 independent projects, maximizing code reusability, security best practices and consistency.
- Engineered modular and agnostic CI/CD pipelines with TeamCity for 7 Unreal Engine projects, supporting 3 platforms (Windows, Linux, Android) and accelerating the development lifecycle by 90%.
- Orchestrated the release process for 4 games on Steam and/or Epic Game Store via CI/CD, reducing release cycle time by 70% through semantic versioning and platform compliance automation.
- Conducted AMI creation using EC2 Image Builder and HashiCorp Packer, reducing image build time by 80% while ensuring consistent, reproducible infrastructure across environments.
- Configured virtual machines using Ansible, ensuring a consistent and shared build environment across agents eliminating manual intervention and repetition by 90%.
- Established a cross-platform automation tool with ElectronJS for bulk management of AWS cloud resources (AWS Gamelift) across multiple tenants, increasing efficiency by 80%.
- Organized manual API deployment processes into fully automated workflows via integrated CI/CD pipelines with IaC repositories, creating a single source of truth, removing technical debt, and saving 75% in deployment time.
- Implemented a scalable cloud-based Unreal Pixel Streaming infrastructure using AWS AMI and launch templates, reducing EC2 allocation time for users and minimizing operational costs.
- Streamlined symbol uploading for 4 Unreal Engine projects through interconnected CI/CD pipelines and BugSplat, ensuring seamless debugging and crash troubleshooting for developers.
- Eliminated local compilation needs by distributing Unreal Engine editor and plugin binaries through CI/CD pipeline, reducing developer setup time by 100%.
- Enforced and educated AWS security best practices, ensuring 100% compliance with IAM roles and policies across cloud environments.
- Setup Google OAuth SSO for company's internal services, integrating with Google Workspace to automate authentication, enhance security, and streamline user access management.
- Administered and streamlined SVN and Perforce repository setup and user access management, enhancing version control efficiency and expediting developer onboarding.

### ExxonMobil | Kuala Lumpur, Malaysia

#### Automation Engineer | 09/2021 - 06/2022

- Created housekeeping automation cleaning up orphaned business content using SharePoint REST API preventing from unintended removal completely and optimizing storage usage.
- Migrated APIs from CloudHub to OpenShift with zero downtime, maintaining operational continuity and 100% uptime.
- Integrated automated API testing into CI/CD pipelines using Postman, ensuring 100% test coverage and reliability.
- Restructured Azure AD role assignments for client applications with Powershell scripts, reducing manual step and potential errors by 95%.
- Documented comprehensive API information for onboarding simplifying adoption by 90%.

### Petronas | Kuala Lumpur, Malaysia

#### Infrastructure Engineer | 09/2018 - 09/2021

- Achieved 100% automation for VMware vSphere vCenter infrastructure health checks, enabling proactive monitoring and issue resolution.
- Streamlined virtual machine provisioning and hardening, achieving 95% automation through PowerCLI within a semi-centralized management platform (CMP).
- Enhanced disaster recovery processes with PowerCLI for ESXi hosts, storage and virtual machines reducing completion time for recovery by 93%.
- Developed custom PowerCLI scripts for bulk operations increasing accuracy and precision by 100%.
- Integrated VMware vSphere API for ESXi host configuration management preventing human errors ensuring 99% uptime.
- Automated housekeeping of the company's computing master inventory (VMs, ESXi hosts, datastores, virtual networks) reducing orphaned resources by 80% and eliminating manual inventory updates.

## Personal Projects

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- Built a monitoring and logging system using InfluxDB and Grafana to track system performance and resource utilization across Proxmox hypervisors and LXC containers.
- Implemented alerting mechanisms for resource threshold breaches, reducing downtime and enhancing system reliability.
- Managed a cloud-hosted Kubernetes cluster as a testing environment for container orchestration and workload scaling, simulating real-world production scenarios.
- Automated Kubernetes resource provisioning using Terraform and Helm, optimizing deployments and streamlining configuration management.

## Additional Projects

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- Designed and developed a full-stack scalable web application integrated with Supabase for database management and hosted via Cloudflare using Wranglers.
- Reverse-engineered and modified video games code for various PC games such as Project Zomboid (Lua Script), Red Dead Redemption 2 (C++), The Witcher 3 (Witcher Script) & Fallout 4 (Papyrus script) while contributing it to the open source community.

## Education

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**Universiti Tenaga Nasional | Putrajaya, Malaysia**

**Software Engineering | 11/2017**

Bachelor's of Computer Science

- Full Scholarship Recipient
- Dean's List Honor (2014 – 2016)
- Gold Award – ICT Research Competition (2017)
- Second Runner-Up – Pro-C Programming Competition (2015)
- Certified Professional Requirements Engineering Participant (2015)
- Secretary – Global Outreach Program to Tokyo (2016)

## Certificates

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ITIL Foundation Level, Microsoft Certified: Azure Fundamentals

## Languages

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English, Malay