Longhan Zhang

Brisbane, QLD, Willing to Relocate
Permanent resident of Australia
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Professional Summary

Cloud System Administrator with nearly 3 years of experience managing Large-Scale AWS infrastructure and automating processes using Python (Boto3), Ansible,AWS Lambda, Step Functions and PowerShell.

Have a background in software development, which helps me better understand both Dev and Ops sides of the equation.

I am keen to grow my career as a DevOps and Cloud engineer.

Education

University of Adelaide, Adelaide, Australia   Feb 2017 – Nov 2020
Bachelor of Computer Science

Certifications

- AWS Certified Cloud Practitioner

- AWS Certified Solutions Architect – Associate

- ITIL® 4 Foundation - PeopleCert

- Terraform Training Completion Certificate -Udemy

Professional Experience

- **Cloud System Administrator**   Jan 2023 – May 2025
  ESRI Australia, Cloud Team   *QLD, Australia*

  - **Large-Scale and Multi-regions AWS Infrastructure Management**:
    Proactively managed **500+ AWS EC2 instances and 100+ VPCs and RDSs across 50+ AWS accounts** and Australia and US regions, improving uptime and streamlining infrastructure monitoring and troubleshooting

  - **Network troubleshoot and Response**:
    Managed and configured secure network communication across **100+ AWS VPCs** and on-premises environments using Transit Gateway, route tables, and security groups to ensure scalable and resilient connectivity.

  - **BAU Automation**:
    Developed automated patching scripts for system and Applications updates for both Windows Server and Linux platforms using **Python, PowerShell, Shell, and Ansible Tower/playbooks**, significantly enhancing operational efficiency and reducing manual intervention.

  - **Infrastructure Monitoring and alerting**:
    Configured and deployed comprehensive monitoring solutions using Ansible Tower, PowerShell, and Bash for tools including **Amazon CloudWatch, CrowdStrike, and Sumo Logic** for Infrastructure and hosted application; **developed dashboards and alerting systems** to improve incident response and achieve targeted SLA

  - **Security Incident Response and Audit**:
    Mitigated a major CrowdStrike outage in July 2024. Conducted regular security audits, enforced IAM best practices, including **AccessKey and Password rotation**, and proactively addressed vulnerabilities across hosted infrastructure, Ensured cloud infrastructure operations aligned with **ISO27001** standards for information security management.

  - **Operational Support**:
    Delivered 24/7 technical **On-Call support** for infrastructure and application incidents, ensuring quick resolutions and maintaining high system availability for client operations.

- **GIS Software Developer**   Jul 2021 – Jan 2023
  We Do IT Australia   *SA, Australia*

  - **Application Development**: Built and maintained automated GIS solutions leveraging Magik language and Batch scripting for enhanced data processing.

  - **Version Control Improvement**: Successfully migrated entire GIS team's codebase to Git, streamlining development workflows.

  - **Workflow Automation**: Integrated Microsoft Power Automate to automate administrative processes, optimizing team productivity.

  - **Maintenance and Updates**: Regularly executed Smallworld system updates and operating system patches to sustain system integrity and performance.

  - **Customer Request Management**: Handled and efficiently resolved client tickets and technical requests, improving client satisfaction and operational efficiency.

Personal Projects

- **Terraform Deployment and Ansible Configuration**: This project uses Terraform to provision AWS infrastructure (VPC, subnet, security groups, and EC2) and Ansible to configure and manage the EC2 instances. The setup includes one manager node to control multiple worker nodes
  Click me

- **AWS Lambda and Step function & Practice Log**: This repository documents my journey learning and practicing AWS Lambda functions using Python. It includes code samples, deployment scripts, test cases, and notes on integrating Lambda with other AWS services.
  Click me

- **Latex Resume Template**: This repository contains a professional resume template written entirely in LaTeX. It's designed to be clean, developer-friendly, ATS-compatible, and version-controlled, perfect for programmers and tech professionals.
  Click me

- **Portfolio Website**: Built a mobile-responsive portfolio with React, HTML5, and CSS3; implemented continuous integration and deployment using GitHub Actions for automated build and deployment workflows.
  Click me

Technical Skills

- **Cloud & DevOps**: AWS, Terraform, Ansible, Jenkins CI/CD, AWS CLI, Python Boto3, AWS Lambda, Step Functions, CloudWatch, WAF, RDS, Load balancer, Athena, S3, DynamoDB and CloudTrail.

- **Virtualisation & orchestration**: Docker, kubernetes, VMWare

- **Programming Languages**: Python, PowerShell, Magik, JavaScript, C++, Batch

- **Scripting Languages and tools**: Bash, PowerShell, Batch, VIM

- **Monitoring & Security Tools**: Sumologic, Pingdom, CloudWatch, CrowdStrike

- **Web development**: React, JS, CSS, HTML, Bootstrap

- **Databases & Analytics**: MySQL, PostgreSQL, SQL Server, PowerBI, Matlab

- **GIS Technologies**: ArcGIS, Smallworld, QGIS

- **Tools & Platforms**: Git, CI/CD, Subversion, GitHub, Bitbucket, Jira, vFire

References

Available upon request.