

Longy Zhang

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PROFESSIONAL SUMMARY

- AWS Certified DevOps Engineer and Cloud Systems Administrator with a Bachelor's degree in Computer Science and 3 years of hands-on experience managing large-scale, multi-region infrastructure (50+ AWS accounts across AU and US regions).
- Hands-on experience in **scalable AWS Infrastructure, Observability, Automated Patching, IaC-driven Migration (Terraform), CI/CD Transformation (Jenkins to GitHub Actions), Security Auditing, Cost Optimisation, and Disaster Recovery** (successfully recovered 400+ EC2 instances during the global CrowdStrike outage).
- AI: Global top early 0.1% ChatGPT user (Jan 2023), GEMINI 3 early adopter, and early VIBE coder (mid-2025).
- Seeking Cloud, DevOps, or Platform Engineer roles to build or migrate highly reliable, available, and high-SLA infrastructure.

EDUCATION & CERTIFICATIONS

University of Adelaide - Bachelor of Computer Science (2018-2020)

Certifications: AWS Solutions Architect Associate — ITIL 4 Foundation — AWS Cloud Practitioner

CORE SKILLS

- **AWS Cloud Services:** EC2, ECS, VPC, RDS, S3, CloudWatch, CloudTrail, IAM, Load Balancers, WAF, Systems Manager, Lambda, SQS, SNS, Step Functions
- **Infrastructure as Code:** Terraform, AWS CLI, Python Boto3
- **Networking & Security:** VPC, Subnets, NAT, Internet Gateway, Transit Gateway, Security Groups, NACLs, IAM Policies, SSL/TLS Certificates, Network Troubleshooting
- **CI/CD & Automation:** Jenkins, GitLab, GitHub Actions, Bash, PowerShell, Batch
- **Platforms & Orchestration:** Windows Server, RHEL, Fedora, Amazon Linux 2, Docker
- **Programming Languages:** Python, Magik, JavaScript, C++
- **Monitoring & Security Tools:** SumoLogic, CloudWatch, CrowdStrike, Cloudflare Zero Trust, Tailscale
- **My Experience with AI & Tools:** Early adopter of AI-assisted development (Gemini 3, Claude Code). Integrated AI workflows into daily DevOps operations, accelerating script generation and infrastructure troubleshooting in security standard

PROFESSIONAL EXPERIENCE

• **DevOps Engineer (Cloud Migration Project)**

Dec 2025 – Feb 2026

QLD, Australia

Otherlevels, DevOps Team

- **Key Objective:** Recruited to execute a rapid "ClickOps to Code" transformation and migrate legacy Jenkins CICD to Github Action.

- **Legacy AWS Infrastructure Migration:**

Reverse-engineered manual "ClickOps" configurations into modular Terraform (IaC). Working on the migration of legacy AWS accounts (Preprod and Prod)—including 200+ ECS services and relevant library dependencies, RabbitMQ, Elasticsearch, RDS instances, and the reengineering of VPCs and Networking to a new AWS Account in the EU region.

- **CI/CD Migration & Modernization:**

Re-architected and delivered 200+ build pipelines, transitioning from self-hosted Jenkins to serverless GitHub Actions. **Designed a secure "Build-Promote-Deploy" strategy** and implemented a custom callback approval mechanism using AWS Step Functions, API Gateway, and Lambda. Implemented reusable build processes for Java and Node.js, significantly minimizing maintenance overhead and optimizing the cost of legacy infrastructure.

- **Operational Excellence & Site Reliability:**

Ensured system stability and developer efficiency by combining Tier-3 troubleshooting for critical CI/CD and ECS blockers with proactive maintenance—including automated health checks, Elasticsearch observability, and routine security/cost optimization audits.

- **Cloud System Administrator**

ESRI Australia, Cloud Team

Jan 2023 – May 2025

QLD, Australia

- **Large-Scale and Multi-Region AWS Infrastructure Management:**

Served **10,000+ users** across **500+ EC2 instances, 100+ VPCs, 50+ RDS instances**, and **50+ AWS accounts** in AU/US regions. Achieved a **99.9% SLA** by improving infrastructure monitoring, implementing automation, and streamlining cross-account troubleshooting processes.

- **Complex Network Troubleshooting and Response:**

Resolved network requests from clients across 100+ VPCs including **SSL certificate updates, network whitelisting requests, and connectivity problems**, reducing average resolution time from 4 hours to 1.5 hours through systematic troubleshooting and documentation of common solutions.

- **Engineered Automated OS and Application Patching Pipeline:**

Using PowerShell, Ansible, Bash and AWS Systems Manager, reduced patching time from **24 hours to 12 hours** (50% improvement) while maintaining zero-downtime deployments across 500+ Windows and Linux servers

- **Automated Monitoring Agent Deployment and Configuration:**

Deployed across 500+ EC2 instances using **Ansible Tower, PowerShell scripts, and AWS Systems Manager Run Command**, standardizing CloudWatch, CrowdStrike, and SumoLogic agent installation across multi-region AWS infrastructure and achieving 99.9% deployment success rate with consistent configuration compliance across all environments

- **Built Operational Dashboards and Alerting Systems:**

Designed monitoring metrics/alerts and integrated **CrowdStrike and SumoLogic alerts with Microsoft Teams notifications**, providing real-time infrastructure visibility to operational teams and management and reducing incident detection time from **15 minutes to 2 minutes**

- **Led Critical Incident Response During CrowdStrike Global Outage:** (July 2024)

Orchestrated recovery of 400+ affected EC2 instances during my **on-call weekend**, minimizing business impact and earning recognition for crisis leadership under pressure

- **Implemented Enterprise Security Governance Framework:** for ISO 27001 compliance, building automated audit solutions with **Python Boto3 and Pandas** to conduct **quarterly IAM reviews, credential lifecycle rotation, and access right-sizing** across 50+ AWS accounts

- **GIS Software Developer**

We Do IT Australia

Jul 2021 – Jan 2023

SA, Australia

- **Application Development:**

Built and maintained GIS solutions leveraging **Magik language and Batch scripting** for Smallworld applications

- **Version Control Improvement:**

Successfully migrated entire GIS team's codebase from **EMACS Subversion to Git on Azure DevOps**, streamlining development workflows

- **Workflow Automation:**

Integrated **Microsoft Power Automate with vFire Ticket System** to automate administrative processes, optimizing team productivity

- **Maintenance and Updates:**

Regularly executed Smallworld application updates and **operating system patching** to sustain system integrity and performance

PERSONAL PROJECTS

• Production-Ready CI/CD Pipeline Platform on AWS

- Architected and deployed secure **multi-tier CI/CD infrastructure** using **Terraform modules** to provision **Jenkins, Docker, and GitLab** across **multiple EC2 instances** in **private subnets**
- Implemented **zero-trust network access** via **Tailscale VPN** with **subnet routing** to secure development environment
- Configured **GitLab webhooks** and **automated Jenkins pipelines** for continuous integration on code commits
- Achieved **end-to-end automation** from source code to **containerized React application** deployment
- GitHub: <https://github.com/LongyZhang/Terraform-Jenkins-Gitlab-Tailscale-Project>

• Infrastructure as Code: Terraform & Ansible Integration

- Engineered **automated AWS infrastructure provisioning** using **Terraform** for consistent, version-controlled deployments
- Built **centralized configuration management system** with **Ansible** for streamlined server administration
- Designed **scalable manager-worker architecture** enabling centralized control of **distributed EC2 instances**
- Implemented **Infrastructure as Code best practices** with automated testing and rollback capabilities
- GitHub: <https://github.com/LongyZhang/Ansible-Terraform-Integration>

• AI-Accelerated Development: Production-Ready Electrician Business Website <https://longy-electrical.pages.dev/>

- Developed a **Modern, Responsive** electrician service website featuring business information, service offerings, contact details, **Quoting Service** and mobile-friendly UI for customer engagement.
- Hosted on Cloudflare Pages at longy-electrical.pages.dev with optimized performance and secure HTTPS delivery.

• AI-Accelerated Development: Longy spatial Coordinate Converter tool <https://spatial-2.pages.dev/>

- Developed a **spatial coordinate conversion** web application at spatial-2.pages.dev to convert geographic coordinates between different **spatial reference systems** including **MGA, GDA, local grids**.

REFERENCES

Available upon request.