Xiang Zhu

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Senior infrastructure and DevOps engineer with 16 years in enterprise IT, including eight in DevOps and cloud infrastructure, six as a Senior Consultant at Thoughtworks. Builds and migrates cloud platforms and CI/CD pipelines on AWS and Azure with Terraform, Ansible and Kubernetes (AKS, EKS, OpenShift). Led a compliance-driven Azure environment migration and GitLab CI/CD rebuild for Singapore's Health Promotion Board, and the OpenShift platform design at China Merchants Bank.

Core Competencies

- **Cloud & Automation**: AWS, Azure, Google Cloud, Linux, Terraform modules, Ansible and Bash/Python scripting.
- **CI/CD & GitOps**: GitLab CI/CD, GitHub Actions, Argo CD, GoCD, Jenkins, Bamboo and Nexus.
- **Kubernetes & Platform Engineering**: Kubernetes, EKS, AKS, OpenShift, Docker and Helm.
- **Site Reliability & Observability**: Prometheus, Grafana, Alertmanager, Graylog and ELK Stack.
- **DevSecOps & Secrets Management**: HashiCorp Vault, SAST/DAST pipeline checks, SonarQube and Trivy.
- **AI-Assisted Engineering**: Codex, Claude Code and Antigravity; output checked against code and tests.

Recent Study and Projects

Aug 2024–Present: relocated to New Zealand (March 2025); completed a Master of Software Engineering (July 2026) and earned HashiCorp Terraform Associate (004) in October 2026.

- **Personal project (Story Filler)**: deployed a web application to Google Cloud Run using Terraform and GitHub Actions, with automated tests and container image scanning (https://jothep.github.io/projects/story-filler/).

Professional Experience

Thoughtworks — **Shenzhen, China**
Senior Consultant (Infrastructure & DevOps) — *Apr 2018–Jul 2024*

- **DevOps, DevSecOps and SRE delivery**: Built and maintained cloud infrastructure and CI/CD pipelines, automated deployments, integrated security checks and resolved operational issues.
- **Infrastructure consulting**: Identified client delivery and operational problems, designed infrastructure solutions with architects and developers, and guided implementation.

Selected Thoughtworks client engagements

Health Promotion Board, Singapore (Oct 2022–Jun 2024) | DevOps Engineer

- Led and completed the migration of SIT and UAT, together with the Terraform and deployment runner VMs, into the government-managed Azure subscription that hosted production, to meet mandatory security requirements, guiding another DevOps engineer.
- Rebuilt delivery pipelines in GitLab CI/CD during the move from Bamboo: code and dependency scanning, image build and scanning, Helm deployment to AKS, health checks and DAST. Refactored legacy scripts into reusable deployment steps shared across environments and automated GitLab Runner host setup with Ansible.
- Set up private endpoints and moved mandatory SAST/DAST to Fortify on Demand. Worked through the client's product owner and support team to resolve a vendor-side scanning blocker.
- Provided day-to-day Azure/AKS support; wrote Terraform plan and import guides and ran sessions for client staff.

SadaPay (Dec 2021–Sep 2022) | Cloud Infrastructure Engineer

- Provisioned AWS infrastructure with Terraform and developed modules to support disaster recovery. Supported EKS and the existing Argo CD/GitHub Actions delivery setup for a fintech platform serving 1M+ active users across 20+ microservices.

Thoughtworks | Selected client engagements (continued)

Daimler AG (Nov 2020–May 2021) | DevOps Team Lead

- Migrated Git-based credential management to highly available HashiCorp Vault on OpenShift, reducing password synchronisation from over one hour to seconds for 200+ users. Delivered CI/CD workflows and operational support using GoCD Pipeline-as-Code and Nexus.

Authority Brands (Jul–Nov 2021) | SRE Support / DevOps Developer

- Refactored Terraform modules and developed service modules for an AWS recovery environment. Jointly assessed platform reliability and security, including monitoring, tenant isolation and recovery readiness, prioritising recommendations by risk and implementation effort.

China Merchants Bank (2018–2020) | Container Platform Consultant & DevOps Lead

- Led the initial assessment and OpenShift platform design to meet the bank's requirements and integrate with legacy VM-based applications, then provided ongoing consulting and resolved platform issues during implementation. The platform went on to support 1,000+ business applications.
- Designed the application-container IP addressing solution that met legacy integration requirements and passed client security review. Once the platform was in place, release cycles fell from two weeks to 2–3 days.

ICBC, Zhuhai (2021) | DevOps Consultant

- Advised on deployment standardisation, database-change controls and traffic-switching options for parallel releases.

Costa Digital Transformation (Apr–Jun 2019) | DevOps Engineer

- Developed monitoring and log-alerting workflows connecting Graylog, Alertmanager and Slack, with contextual notifications, alert-silencing controls and scheduled homepage availability checks.

Earlier Experience

Software implementation, pre- and post-sales support, systems engineering and operations across Windows, Linux, UNIX, storage and virtualisation.

- **Shenzhen Xinzhen Technology** | DevOps Engineer (2017–2018): Kubernetes microservice platform and autoscaling.
- **Shenzhen Huayun Zhongsheng Technology** | Cloud Computing Engineer (Jun–Aug 2017): Docker and Kubernetes architecture advice.
- **Accenture (China)** | Infrastructure Consultant (2016–2017): Kubernetes specialist seconded to Huawei.
- **Shenzhen Zhongrun Sifang Info Tech** | System Engineer (2013–2016): tax e-invoice infrastructure operations.
- **Shenzhen Public Network Info Tech** | Project Manager (2012–2013): sourcing and delivery coordination.
- **Beijing Kunlun Unicom; Beijing Massive Intelligent Data** | System Engineer (2008–2012).

Education

Master of Software Engineering (NZQF Level 9) | Yoobee Colleges, Auckland
2025–2026; conferred 27 July 2026.

Bachelor of Computer Science and Technology | Zhengzhou University of Light Industry
2002–2006.

Certifications

- **HashiCorp Certified: Terraform Associate (004)** – 2026.
- **Certified Kubernetes Administrator (CKA)** – CNCF, 2019.
- **Oracle Database 11g Administrator Certified Professional (OCP)** – Oracle, 2013.