



# Deli Qiao

DevOps / Platform Engineer

14 Years Infrastructure Automation · Multi-Cloud Platform Engineering

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## Core Strengths

### Full-Stack Automation

Built full-stack infrastructure automation from scratch covering bare-metal (BMAAS), private cloud, and multi-cloud environments

### Patents & Software Copyrights

Developed one-stop DevOps toolbox with **Invention Patent** (CN121635905A) and **Software Copyright** (2025SR2538156)

### Localization Engineering

Completed full-chain localization for Anolis OS/UOS/OpenEuler, supporting x86/ARM64/C86 triple-architecture delivery

## Professional Certifications

Certifications: **AWS SAA** · **CKA** · **RHCE** · **Azure Admin** · **PMP**

## Key Achievements

### ZFS Storage Performance Tuning

IOPS 230k → 800k (3.5× improvement)

### Image Factory Pipeline Efficiency

Zero failures 30+ days, 3.2× efficiency gain

### Private Cloud Platform Delivery

Bottom-up HA architecture, 5+ customer sites

### Parallel Project Coordination

7 projects running simultaneously

### Operations Efficiency (IBM Era)

Efficiency +50%, Quality +90%, Deploy time -80%

## Patents & Software Copyrights

INVENTION PATENT

JetDev Operations Toolchain Core Architecture

CN121635905A

SOFTWARE COPYRIGHT

JetDev One-Stop DevOps Toolbox Platform

2025SR2538156

## Tech Stack

### Cloud Platforms

CloudStack, AWS, Alibaba Cloud, Huawei Cloud, CT Cloud, Proxmox VE

### Container Orchestration

Kubernetes, Docker, Helm, Harbor, JFrog Artifactory

### IaC Automation

Terraform (in-house Provider), Ansible, Packer, Tinkerbell, cloud-init

### Storage

ZFS, DRBD, DRBD-Reactor, Linstor, LVM

### Observability

Grafana, Prometheus, Alertmanager, Loki, Fluentd, Zabbix

### Security & Compliance

Vault, Nessus, Lynis, Consul ACL, SSL/TLS, Trivy

## CI/CD & GitOps

GitLab CI, ArgoCD, Helm, Goss, Jenkins, Ansible Tower

## Operating Systems

Ubuntu, Anolis OS, UOS, OpenEuler (x86/ARM64/C86)

## Languages

Go, Python, Shell/Bash, HCL

## Personal Projects

### ResumeForge - Brand-Grade Resume Generator

<https://github.com/qiaodeli111/ResumeForge> | Apr 2026

- Built multi-theme resume generation system from scratch with **50+ brand design styles** (Apple/Tesla/Stripe/Vercel etc.)
- YAML-driven content management, one-click generation of **HTML/PDF/DOCX** formats, bilingual support
- Modular architecture: content-style separation, hot-pluggable themes, extensible brand customization
- Tech stack: Python, Jinja2 templating, python-docx, Chrome Headless PDF rendering
- Full style resume board for me: <https://resume.dellyqiao.com>

## Work Experience

## DevOps Team Lead

Coordinating **7 parallel projects** (BMAAS/Terraform/Image Factory/CloudStack/K8s/IT Support/JetDev), leading architecture decisions and tech selection, delivering **5+ customer sites**.

### Kubernetes Platform Engineering

- Built K8s on CloudStack from scratch: hybrid architecture (control plane on VMs + workloads on K8s), etcd HA, Calico CNI, CSI integration
- Established ArgoCD GitOps conventions: Git repo separation, Helm versioning, environment promotion flow, migrated to 'Git PR is deployment'
- Core service migration: JumpServer Helm Chart migration (Cert-Manager SSL); JFrog Artifactory HA architecture design

### CloudStack Private Cloud

- ZFS performance tuning: IOPS **230k → 800k**; fixed DRBD heartbeat parameters for **7×24 stability**
- Troubleshoot critical issues: VM creation failure, migration interruption, read-only mode trigger, with root cause analysis and patch submission
- Observability: Alert response reduced from **hours to minutes**; launched Grafana capacity dashboards

### BMAAS Bare-Metal Automation

- Extended Tinkerbell/HookOS: added Rescue mode, redfish-batch-ISO tool
- cloud-init zero-touch provisioning: hostname/MTU/disk auto-configuration; x86/ARM64/C86 full-architecture delivery

### Image Factory (Packer)

- 5 OS × 3 architecture full-matrix builds; integrated Goss/Lynis/Trivy automated testing
- Localization enablement: Anolis OS on ARM (ZFS/DRBD HA integration), UOS on Hygon C86
- Pipeline zero failures for **30+ days**, efficiency improved **3.2×**

### JetDev Toolchain (Patent & Copyright)

- Built one-stop DevOps toolbox: integrated Ansible/Terraform/Packer/GitLab Runner
- Ansible Role scaffold generation time reduced by **80%**
- Filed Invention Patent CN121635905A, Software Copyright 2025SR2538156

- Adopted by ops and testing teams

## Kyndryl Shenzhen (IBM Spin-off)

Sep 2021 – Aug 2024 | Shenzhen

### SRE Engineer (Toolchain) · Technical Lead

Work identical to IBM: maintained Software Defined Environment (SDE) platform, drove transformation from traditional ops to automated operations; served as Technical Lead for solution design, task allocation, and cross-region collaboration.

## IBM Shenzhen

Mar 2017 – Sep 2021 | Shenzhen

### SRE Engineer (Toolchain) · Technical Lead

Maintained Software Defined Environment (SDE) platform, drove transformation from traditional ops to automated operations; served as Technical Lead for solution design, task allocation, and cross-region collaboration.

#### Automated Operations System

- Transformed team from "manual + scripts" to "**local dev + automated build/test + one-click deploy/rollback**"
- Team ops efficiency **+50%**, quality **+90%**, human errors nearly eliminated
- Customer app deployment time **-80%**, change request handling time **-50%**
- Managed full DevOps toolchain: Chef/GitLab/Jenkins/Ansible Tower/UCD

#### AWS Architecture Consulting

- Designed global architecture for North America customer: **ECS → EKS** cluster migration, Global Accelerator for traffic offload
- Separated storage and database layers, pre-peak horizontal scaling, resolved cross-region latency and high costs

#### Team & Achievements

- **6 consecutive years** of "Exceed Expectation" annual performance rating
- Managed **4-10 person** cross-cultural team (China/India), led technical interviews and capability building

## Tianjin NNIT Technology Co., Ltd.

May 2016 – Mar 2017 | Tianjin

## Change Service Delivery Manager (ITIL / GxP Compliance)

### Change Management

- Reviewed RFC change requests: business need, risk assessment, execution plan, rollback plan – end-to-end governance
- **GxP (Good Laboratory Practice)** compliance document audit, ensuring completeness and compliant signatures
- Rebuilt change management workflow with Excel templates + automation scripts, reducing workload by **80%**
- Built monthly productivity report automation pipeline, improving management efficiency and PIR quality

## DXC Technology (formerly CSC)

Jun 2012 – May 2016 | Tianjin

### WebHosting Team Lead / Operations Engineer

Provided comprehensive middleware and JavaEE enterprise application operations for **AIA** across multiple Asian regions.

### Team Leadership & Automation

- Led **4-person international team** (China/India, promoted to Team Lead in Sep 2014), automation coverage increased from **10% → 50%**
- Mentored India Offshore team members, built high-performance service platform, received customer commendation

### Key Projects

- Led multi-site **data center migration**, website partition, and new system establishment
- Led **IBM WAS 6 → WAS 8** middleware cross-version upgrade migration
- SSL certificate management, disaster recovery testing, Zabbix monitoring system maintenance
- Developed automation scripts, team efficiency improved by **20%**

## Certifications

AWS SAA Nov 2022

CKA Aug 2021

RHCE Jun 2022

Azure Admin Apr 2022

Alibaba Cloud ACP Jul 2021

PMP Nov 2017

ITIL® Foundation Feb 2017

## Education

2008 – 2012

Tiangong University

Double First-Class

Bachelor of Software Engineering