



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 **7x24 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 **3.2x**

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

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