

Jian Shi

Backend / Data Systems Software Engineer

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SUMMARY

Backend/data systems software engineer experienced in Go, Java, Python, SQL, message-driven services, API design, PostgreSQL/MySQL, CMDB/inventory/security correlation, CI/CD, observability, and production reliability workflows. Strong background building and operating production data services that integrate multi-source infrastructure, ownership, cloud metadata, and security signals into actionable data products. Recent platform work includes Kubernetes/GitOps-based deployment and upgrade workflows; motivated to apply this backend/data systems background to AI/ML production systems, including data readiness, inference-service foundations, model-serving observability, and reliable operations.

SKILLS

Languages	Go, Java, Python, SQL
Backend & Distributed Systems	REST/OpenAPI APIs, message-driven services, RabbitMQ, service integration, reliability-oriented backend design
Data Systems	PostgreSQL/MySQL, CMDB/inventory modeling, multi-source ingestion, asset/security correlation, data quality workflows
Production & Observability	Docker, Jenkins, Makefile workflows, Grafana dashboards, Prometheus metrics exposure, Splunk dashboards, incident/troubleshooting workflows
Platform Delivery	Kubernetes operations, Helm exposure, Argo Workflows, GitOps workflow exposure, release validation, platform upgrade workflows
Security & Automation	Anchore, Tenable, vulnerability/asset correlation, AI-assisted operational playbooks, runbook-driven operations

PROFESSIONAL EXPERIENCE

Cisco - Webex

Backend / Data Systems Engineer

Hangzhou, China
Nov. 2019 - Jun. 2026

Production Backend, Data, and Security Systems

- Built a new Go-based platform CMDB/security data service from scratch using RabbitMQ-driven ingestion, PostgreSQL persistence, OpenAPI-style APIs, and modular data-access/message-processing layers.
- Integrated multi-source asset data, AWS resource metadata, and Anchore/Tenable security findings to create a correlated asset, ownership, and vulnerability view.
- Designed matching logic to associate infrastructure assets, service ownership, and security issues, then published correlated data to Splunk dashboards as an asset inventory foundation and security issue data source.
- Modernized an existing Java-based enterprise CMDB/inventory service, including Java 17 upgrade, Dockerized packaging, Kubernetes onboarding, and compatibility/validation work.
- Built and maintained Java/Spring backend components and Java/Go workflows for job execution, error handling, data transformation, service integration, metadata synchronization, data quality, dependency upgrades, versioned releases, and database-backed migration work.

Reliability, Observability, and Production Operations

- Created Grafana dashboards and operational views to monitor platform services, validate releases, and support troubleshooting with runtime evidence.
- Used Prometheus metrics exposure, dashboard signals, Splunk outputs, rendered configuration, and service health checks to diagnose production issues and verify operational readiness.
- Supported production-quality workflows covering validation, rollout verification, rollback/runbook awareness, and cross-team incident triage.

Platform Delivery and Release Automation

- Worked in a Kubernetes/GitOps-based platform delivery environment using Argo Workflows, Helm exposure, release configuration definitions, and code-reviewed operational changes.
- Supported cluster/application lifecycle workflows where platform APIs validate release/template, location, and infrastructure options before automated provisioning or deployment paths.
- Helped execute platform upgrade workflows spanning Kubernetes versions, OS images, infrastructure modules, Helm charts, and internal services through controlled configuration, testing, promotion, deployment, and health checks.

Engineering Productivity and AI-assisted Workflow Automation

- Codified recurring platform routing, troubleshooting, and operational decision procedures into reusable AI-assisted operational playbooks and workflow helpers, improving consistency for daily platform operations.
- Built reusable workflow helpers for API-driven operations, GitOps repository updates, generated configuration files, and multi-step validation tasks while keeping human review and operational ownership in the loop.
- Standardized complex troubleshooting flows into repeatable runbook-style procedures covering context gathering, operation-step preparation, configuration review, and evidence collection for team reuse.

EDUCATION

University of Melbourne

Master of Information Technology

Melbourne, Australia
Jul. 2017 - Jul. 2019

Zhejiang University of Technology

Bachelor of Software Engineering

Hangzhou, China
Sep. 2013 - Jun. 2017