CV (AI Application Development Focus)

Personal Information

• Name: Pan Haitao

Location: Shanghai, ChinaCurrent Status: Open to work

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• LinkedIn: www.linkedin.com/in/haitaopan

• Languages: Chinese (Native), English (Conversational)

• Personal Website: https://www.svc.plus (Live ASKAI Assistant Demo)

Education

| | Degree School | Major |
|------------------|--|-------------------------------------|
| 2006.9 -2010.6 E | Bachelor Changchun Institute of Technology | Electrical Engineering & Automation |

Desired Roles

- AI Application Engineer / LLM Engineer / AI Agent Developer
- AIOps / MLOps Engineer (Application-focused)
- Platform Engineer (LLM Application + DevOps Integration)

Profile Summary

- 14 years of experience in infrastructure and platform engineering across manufacturing, finance, telecom, and internet sectors; recently focusing on **AI** + **Operations/Business applications**.
- Hands-on expertise in end-to-end AI application engineering: data ingestion → retrieval/indexing → RAG & Agent design → API/service deployment → observability & canary release → GitOps/CI/CD.
- Strong in Kubernetes, GitHub Actions, GitOps, Terraform, Pulumi, bridging LLM applications with cloud-native platform engineering.

 Practical experience in AIOps and observability: leveraging eBPF / OpenTelemetry / pgvector + LLM for root cause analysis, Runbook Q&A, alert deduplication, and automated incident response.

Core Skills

LLM & Agent

- Frameworks: LangChain / LlamaIndex / OpenAI Assistants API / function calling
- Agent Design: tool orchestration, retrieval chains, memory management, task planning & execution
- Models & Services: OpenAI / Claude / Qwen, Llama, Ollama, vLLM, Text & Embeddings APIs

RAG & Retrieval

- Embeddings & Rerank: bge-m3 / e5 / common rerankers
- Vector Databases: PostgreSQL + pgvector, Elasticsearch (kNN + BM25), Odrant, Milvus
- Document Engineering: segmentation, metadata indexing, hybrid retrieval strategies

MLOps / AIOps

- Data pipelines: ETL, nearline ingestion of logs/metrics/traces into knowledge bases
- Evaluation: retrieval recall, answer accuracy, latency & cost monitoring, regression testing for prompts
- Governance: prompt/versioning, safety guardrails, rollout/rollback strategies

Platform & Automation

- Cloud-Native: Kubernetes, Helm, ArgoCD, FluxCD
- CI/CD: GitHub Actions, GitLab CI, Jenkins (AI app build, evaluation, release pipelines)
- IaC: Terraform, Pulumi (AWS/GCP multi-cloud)

Programming & Backend

- Python, Shell (familiar with Go, Rust, JavaScript)
- FastAPI / Flask / gRPC / WebSocket, task queues (Celery/Redis)
- Observability: Prometheus, Grafana, OpenTelemetry, DeepFlow

Selected AI Projects & Achievements

- 1) AIOps Runbook Q&A (RAG + Agent)
- **Scenario**: Unified Runbook/alerts/change logs/monitoring docs into a retrieval-based Q&A system for SREs.

- **Tech**: LangChain, pgvector, bge-m3, BM25 hybrid retrieval, ArgoCD read-only API, Grafana API.
- **Pipeline**: GitHub Actions for daily incremental indexing; PR-triggered regression tests.
- **Impact**: Reduced mean time to resolution by 30%+; average query response < 1.5s (cache hit).

2) Infra Docs-to-Code DevRel Copilot

- **Scenario**: Query Terraform modules, Helm values, FAQs and autogenerate MR drafts.
- Tech: LlamaIndex + pgvector, schema-constrained chunks, GitHub Actions PR Bot.
- **Impact**: Reduced MR preparation time from hours to minutes.

3) Observability Data Q&A (Logs/Traces/Metrics)

- **Scenario**: Natural language to observability query (metrics, traces, logs).
- **Tech**: Toolformer-style router, functions like query_metrics(), search_traces(), get logs().
- **Impact**: Enabled first-line engineers to self-serve context queries, reducing SRE load.

Projects & Open Source Work

- **ASKAI (Live Demo)**: https://www.svc.plus —conversational AI assistant with tool orchestration.
- **XScopeHub (AIOps Suite)**: Vector/OpenTelemetry/Postgres integration for nearline ETL & retrieval, with evaluation scripts.
- **XCloudFlow / XConfig**: CI/CD + IaC modular framework, supporting canary/rollback for LLM apps.
- Navi (Desktop AI Assistant): Cross-platform agent with guided tasks, knowledge Q&A, and memory-enabled tool orchestration.

Professional Experience

Beijing Yunshan Century Network Technology Co., Ltd. —Senior Support Engineer (2024.11-2025.09)

- Stack: Linux, Kubernetes, DeepFlow, NPM & APM, eBPF, Hybrid Cloud
- **Responsibilities**: On-site deployment, tuning, and ops of observability systems; AI Agent PoC delivery.

• Key Achievements:

- Optimized DeepFlow collector performance for heavy traffic (SynTao Finance).
- Delivered AI Agent PoC for COSCO Shipping (containerized deployment & QA testing).
- Supported observability deployments for energy & telecom clients (Shanghai Power, Zhejiang Mobile, Jiangsu Telecom).

Tesla (Shanghai) Co., Ltd. –Site Reliability Engineer (2024.01-2024.05)

• **Stack**: Linux, Kubernetes, GitHub Actions, GitOps (ArgoCD), Ansible, Helm, Jenkins

• Achievements:

- Developed Jenkins pipelines for industrial control (Ignition) automated deployment/upgrade.
- Built GitHub Actions + ArgoCD pipelines for ITSM & DMP systems, enabling full automation.
- Automated Grafana dashboards & alerts with Ansible Playbooks (Infra as Code).

Huaxun Network Systems Co., Ltd. –Senior Cloud Solution Architect (2022.03-2023.10)

- Stack: AWS/AliCloud, Terraform, Pulumi, GitLab CI, GitOps (FluxCD)
- Highlights:
 - Re-architected AWS EKS Terraform modules (migration, upgrade, addon mgmt).
 - Delivered Syngenta DevOps platform (EKS + GitLab) with IaC & app pipeline templates.
 - Built multi-cloud monitoring & IAM integration with Keycloak.

UCloud Technology Co., Ltd. -Senior Solution Architect (2020.07-2021.11)

• **Focus**: Hybrid cloud design, large-scale Kubernetes migration, CI/CD modernization.

Projects:

- GrowingIO: Designed LB migration with automated load testing via Ansible.
- Blockchain client: Automated creation of 1000+ VMs via Python + API for elastic compute.

Alauda (灵雀云) -Delivery Engineer (2018.05-2020.06)

- **Focus**: PaaS upgrades, DevOps pipelines, containerized platform delivery for finance clients.
- **Achievement**: Led 6 major upgrades of China Everbright Bank's CPaaS container platform.

Deepin Technology – Software Engineer (2015.05-2018.04)

- **Focus**: Deepin Server OS V15 development, automated packaging & CI/CD pipeline.
- **Achievement**: Reduced release cycles by 30% via automation scripts.

KnownSec – Operations Engineer (2013.11-2015.04)

• **Focus**: IT infra ops, CDN optimization, automated monitoring with Saltstack/Nagios.

Inspur – System Software Engineer (2013.05-2013.10)

• Focus: Linux server administration, monitoring & automation scripting.

CS2C (China Standard Software) —Software Engineer (2011.05-2013.04)

• Focus: Porting Linux to Loongson CPU, Koji-based RPM automation.