

JIACHENG LANG

Automation Engineer — n8n | Cloud | AI Workflows

CONTACT

Halle (Saale), Germany
zheshiljc@outlook.com
ushuaialang.com
github.com/robinsonlang22

SKILLS

- n8n (self-hosted)
- Docker / Docker Compose
- Terraform (IaC)
- Google Cloud Platform
- Identity-Aware Proxy
- Python
- LangChain
- Prompt Engineering
- PostgreSQL / pgvector
- ML / DL (academic)

EDUCATION

10/2023 - Present
M.Sc. Digital Humanities
University of Leipzig

10/2018 - 12/2021
B.Sc. Digital Humanities
University of Leipzig

LANGUAGES

English C1
German B2
Mandarin Native

PROFESSIONAL SUMMARY

Automation engineer with hands-on experience designing end-to-end n8n workflows, provisioning zero-trust cloud infrastructure on Google Cloud with Terraform, and integrating Large Language Models into production pipelines. Background in NLP, deep learning, and testing engineering, combining technical rigour with fluent English and conversational German. Passionate about building reliable, security-first automation systems that bridge AI capabilities with real-world business operations.

PROJECTS

Self-hosted n8n Zero-Trust Infrastructure Jan 2026

GitHub | Terraform, GCP, Docker Compose, PostgreSQL

- Designed and deployed an enterprise-grade n8n platform on a GCP VM located in Frankfurt (europa-west3) for GDPR-compliant and low-latency access, using Terraform for declarative, one-click infrastructure provisioning (Compute Engine, Load Balancer, Firewall).
- Implemented Zero-Trust Architecture with Google Identity-Aware Proxy (IAP) for edge authentication; eliminated all public-facing ingress ports by restricting firewall rules to Google Edge nodes only.
- Configured host-based URL-map routing via GCP Global Load Balancer to separate public endpoints from authenticated backends, with automated SSL certificate management.
- Orchestrated a multi-service Docker Compose stack (n8n, PostgreSQL with health checks) with environment-driven configuration and persistent volume management.

AI Customer Support HITL Workflow Feb 2026

GitHub | n8n, Gemini API, Python, PostgreSQL, Telegram Bot, Gmail API

- Built a Human-in-the-Loop email pipeline using Google Gemini to analyse incoming emails, generate context-aware draft replies, and compute dynamic confidence scores with flag-based deductions.
- Engineered an approval gateway: low-confidence drafts are automatically routed to a Telegram operator interface with inline Approve/Reject buttons backed by asynchronous n8n webhooks.
- Designed a PostgreSQL data layer that persists every AI draft alongside human corrections, enabling structured feedback collection for future model improvement.
- Applied constrained LLM generation with brand-voice system prompts and strict JSON structured output to reduce hallucinations in customer-facing content.

WORK HISTORY

Testing Engineer, Vibe Inc. Mar 2022 - Jul 2023

- Executed functional, regression, and integration testing across product releases, identifying defects and ensuring quality standards prior to deployment.
- Collaborated with cross-functional development teams to refine test strategies, document bug reports, and improve overall software reliability through systematic QA processes.