

Lans Hung

Staff Platform/Backend Engineer

San Francisco Bay Area | lansoulot@gmail.com | [linkedin.com/in/lanscchung](https://www.linkedin.com/in/lanscchung) | website: lans-h.cc

SUMMARY OF QUALIFICATIONS

Staff engineer, 10+ years in **distributed systems, site-reliability and open-source software development**. Owned OCI(Oracle Cloud)-native OS Linux Service Platform across software lifecycle, image registry, and vulnerability management. **Tech lead on the 0-to-1 delivery** of an Ansible Automation Platform across a cross-functional team of six: architecture, high availability, event-driven job dispatch, production tuning.

Since leaving Oracle I have designed, shipped and operated production systems end to end: a Kubernetes platform serving **four live apps** with an observability dashboard, and two open-source plugins governing autonomous agent runs. Owning architecture through operations alone is the judgment a lead role turns on — what to accept, what to cut, when to change direction. All at lans-h.cc.

SKILLS

Languages: Python, Java, Shell/Bash, SQL

Cloud/Infra: OCI, AWS, Kubernetes, Docker/Podman, Terraform, Bare-Metal/VM Provisioning, Apache/Nginx

Platform & Automation: Ansible / AWX / galaxy_ng, Infrastructure as Code (IaC), CI/CD, RPM/dnf/yum, Git/SVN, Grafana

Supply-Chain Security: CSAF/VEX/OVAL, CVE remediation & backporting, security advisories, vulnerability management

Data: PostgreSQL, Oracle DB, Cassandra, MongoDB, Redis, Solr, MySQL

Agentic AI: Claude Code plugins/skills/hooks, subagent orchestration, Anthropic/Gemini APIs, LLM evaluation

SELECTED AI PROJECTS

Platform lans-h.cc — Multi-app Kubernetes platform running a four-app fleet 2026 – present

- **Infra:** Shared infrastructure for four independent apps — wildcard TLS ingress, least-privilege Postgres role per app, signed-webhook deploys behind CI gates — then **audited adversarially**: an 11-finding review composing into one attack chain (RCE in any app to cluster-admin to every Secret in plaintext), remediated with measured blast radius.
 - **Observability:** monitoring on an offload principle: collectors only on node, never competing with what it monitors. Alloy pulls container performance(kubelet/cAdvisor), host status(node-exporter/textfile), db(postgres-exporter) and opt-in app metrics. Relabelling ~46.5k kubelet series to ~6k for cardinality control. Isolated namespace-per-app and db-per-app so per-app CPU, RAM and size data is free.
- Stack:** Kubernetes, Traefik, cert-manager (ACME DNS-01), PostgreSQL, containerd, Kustomize, GitHub Actions, Prometheus, Grafana Alloy

Upward Mobility — Open-source agent operating discipline + LLM eval methodology 2026 – present

- Published two **Claude Code** plugins: `upward`, core constraining autonomous agent runs — a single executing context with read-only sub-agents (delegation reversed on measurement), no self-verification, an explicit model-tier escalation ladder — and `upward-stats`, a hook-based per-call token accountant.
 - Benchmarking exposed the harder problem: **LLM-on-LLM evaluation invalidates itself** — a drifting subject, a reviewer that generates its own criteria, and a scaffold overfitting to defects from prior rounds. Review scope and depth determine whether a comparison is valid. (Article: <https://lans-h.cc/blog/the-benchmark-that-flattered-me/>)
- Stack:** Claude Code plugin/skill/hook APIs, headless agent orchestration, LLM evaluation methodology, agent task decomposition, cache-hit-rate optimisation, cost/token instrumentation

Snoopy Home — Household AI assistant chatbot | Live on Discord 2026 – present

- Gemini-powered Discord assistant: the model resolves language, the application owns scheduling, state and routing.
- Stack:** Python, Google Gemini API (native function calling), discord.py, PostgreSQL/asyncpg, APScheduler, Google Calendar API

Transigen — Boiler Room style AI automix web app | Live at transigen.lans-h.cc 2026 – present

- DJ automix web app: YouTube/Spotify ingestion cached in Postgres, beat-mapping and transitions.
- Stack:** Next.js 15, React 19, TypeScript, PostgreSQL (LISTEN/NOTIFY-to-SSE), Google OAuth, YouTube IFrame API, beat-analysis worker

Gelp — A better way to find Google Maps saved places | Live at gelp.lans-h.cc 2026 – present

- Idempotent Google Takeout import. Easy browsing by list/category/map. One Places API call per place, ever.

Stack: Next.js 15 (App Router), TypeScript, NextAuth v5, PostgreSQL (Drizzle ORM), Leaflet/OpenStreetMap, Google Places & Drive APIs

PROFESSIONAL EXPERIENCE

Staff Platform Engineer

10/2023 – 09/2025

Oracle Linux Services, *Remote*

- Owned OCI-native Linux System's **dual API surfaces** — customer-facing linux yum-client (registration, subscription, dependency resolution, errata/CVE queries) and internal operator pipeline (channel lifecycle, errata publishing, advisory generation) — evolving the operator side without disrupting the client-facing dispatch layer.
- Architected machine-readable **security advisory** (CSAF/VEX/OVAL) pipeline (3,500+ advisories/year). Closed detection gaps absent from upstream OVAL vulnerability auditing by redesigning package module-stream support.
- Operated OCI-native Linux systems yum-channel release pipelines (1M+ packages / ~57M monthly downloads).
- Operated OCI Image Registry mirrors and Oracle official registry (22 geo-distributed endpoints, ~23M monthly downloads).
- Containerized Open Source Software platform to run on OL9 and executed a zero-downtime x86-to-ARM migration with ~90% **automated provisioning** via Ansible (23 roles), reducing deploy cost to 10%.

Staff Product Engineer

08/2022 – 10/2023

Oracle Automation Platform, *Remote*

- Delivered **0-to-1** of an Ansible Automation platform (AWX based) as tech lead (research, architect, workflow, product delivery) of a cross-functional team of ~6 (2 engineers, 2 QA, technical writer, PM) + support team.
- Resolved production performance incidents through PostgreSQL and system-level tuning alongside the customer support team between release cycles.
- PostgreSQL LISTEN/NOTIFY as the control-plane bus for dispatcher and task-manager events — transaction-bound and colocated with the job state they describe — and Redis absorbing the high-volume job-event stream ahead of Postgres, then fanning live output out over websockets.
- Containerized job execution runtime with libraries/SDK dependencies based on job types, to decouple job scaling issues between playbooks, softwares, and Ansible runtime as task complexity increases.
- Integrated OCI natively (credential type + toolchain in the execution image), enabling direct OCI resource management from job templates.

Senior Software Engineer

12/2015 – 08/2022

Oracle Linux Release Engineering, *Redwood Shores*

- Maintained and code-reviewed 50+ Oracle Linux packages across OL6/7/8 (Python, curl, PowerShell) — backported upstream CVE patches through the full patch-review-build-release lifecycle for production Errata.
- Built go_vendor_gen to automate Terraform / rclone / packer module vendoring for air-gapped RPM build system.
- Built BugDB-CLI (batch field updates + CI/CD comment detection for status updates automation), unblocking the Linux team's Bugzilla-to-BugDB migration.
- Built a Grafana release-tracking dashboard for package and errata shipment status across OL6/7/8.

Software Engineer

04/2014 – 10/2015

Fuhu, Inc, *Milpitas*

- Backend engineer on the NabiPass Catalog API (Java Spring + Cassandra); built Apache Solr text search.

Analytics Engineer

08/2012 – 01/2014

Kixeye Inc, *San Francisco*

- Built an analytics dashboard (Hadoop/Hive, MongoDB, MySQL) driving in-game event logging.

EDUCATION

M.S. Computer Science,

University of Southern California (USC)