

# HUNG THAI

Senior Software Engineer · Product engineering · B2B SaaS · Python backend · shipping with customers · AI-native development

13 years · Helsinki · Full right to work in Finland

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## PROFILE

Senior software engineer with thirteen years' experience, **nine of them on Python, Django and Django REST Framework** — building and running the core of a **B2B SaaS platform** I joined in its very early startup phase, now at ~290,000 purchase orders and ~166,000 inspections a month for enterprise customers. **Product engineering is how I work**: with the product manager from the first idea to a live release used by real clients — a decision workflow shaped into a minimal first release and in production after six weeks of development, with 3,000+ decisions since. **I own outcomes, not tickets**: I took over a product still in development and it now carries 79,000 lab tests in six months; when a major customer escalated, I led the fix from 1–2 minutes to about 2 seconds. **Data model to API to release**, with a 100% coverage gate; I pick up frontend tasks when the team needs it, though the backend is my strength. **AI-native daily** — Claude Code (with MCP connectors to Jira and Confluence) and Cursor, verification-first; local models with Ollama in my own agent experiments. **Learns new stacks quickly**, and faster now with AI. Technical lead since 2023.

Thousands of queries → ~20 on the worst request paths · Lab Test pages 1–2 min → ~2 s in a programme I led · 79,000 lab tests in six months on a product I took over mid-build

## TECHNICAL SKILLS

**Core (daily)**: Python 3.12, Django 5.2, DRF, Celery, **PostgreSQL**, **Redis**, RESTful APIs/OpenAPI, pytest, Git, Linux  
**Production & reliability**: shared on-call; incident root-causing with request tracing (Jaeger) and query-count profiling; monitoring and alerting with Datadog and Sentry; regression tests that pin the fixed behaviour  
**Delivery & architecture**: iterative delivery from ambiguous requirements; incremental, reversible change — staged zero-downtime migrations, a legacy code path replaced behind a stable API contract; backward compatibility for API consumers; technical design documents  
**Containers & cloud**: **Docker**, **Kubernetes**, ArgoCD, GitLab CI/CD, **GCP** (Cloud SQL, GCS); AWS earlier  
**Automation & AI-assisted engineering**: Claude Code, Cursor, AI code review in CI — **humans accountable for correctness**; recurring manual fixes turned into scripted, documented self-service  
**Event-driven**: **Kafka** between services; Celery task queues with commit-safe dispatch (on\_commit)  
**Ways of working**: small cross-functional teams with a PM; code review, pairing, technical design documents, mentoring; distributed multinational team working in English  
**Frontend**: picks up tasks when the team needs it; backend is the strength  
**Earlier**: PHP (Symfony, Laravel, CodeIgniter; early career), AWS and DynamoDB (including the decommission), Node.js, Android

## EXPERIENCE

**Inspectorio** — Remote, Helsinki (previously Ho Chi Minh City, Vietnam)

*B2B SaaS for supply-chain quality & compliance*

**Team Lead, Software Engineer** · Inspectorio · Sep 2025 – Present

**Senior Software Engineer** · Inspectorio · Jan 2022 – Aug 2025

**Software Engineer** · Inspectorio · Apr 2017 – Dec 2021

**Inspection — core revenue product** (2017 – 2024 primary · still the owner)

- ~290,000 purchase orders and ~166,000 inspections flow through the platform every month, peaking above 480,000 POs in May 2026 — on the inspection backend I have built and owned for nine years, from booking to the delivered report.
- **Worst-case request paths dropped from thousands of queries to around 20**, with duplicate queries near zero, after I profiled every read and write path across the Inspection surface.
- **One inspection is visible to four organisation types with opposed commercial interests — retailer, agency, supplier and factory — and to no one else**, across a network of ~266,000 organisations. A mistake in that model is a data leak between commercial counterparties, not a slow page.

**Lab Test — product takeover and enterprise rollout** (Sep 2024 – Present)

- **I designed the Disposition domain and built its core** — scoped with the PM to a minimal first release, six weeks of development to production (Jan 2026), enterprise rollout Apr 2026, **3,000+ decisions since**, with the remaining features shipped afterwards. A state machine with per-transition rules on who may act and when; notifications, audit and follow-up actions attached as observers so they grow without touching the rules. Shipped with the squad.

- **A product still in development when I took it over now carries 79,000 lab tests in six months** — 56% created straight through the integration API, whose create path I rebuilt in 2025 behind the same contract: fewer queries per request, the old code path removed, end-to-end tests against the contract, and new rules applied only to callers who opt in, so existing integrations kept working.

#### Platform engineering

- **37 Django apps moved from Python 3.9 to 3.12** in Feb 2025, eight months ahead of 3.9's end-of-life — dependency lock refresh, CVE remediation and test-suite repair, platform-wide.
- **131 migrations shipped against live tables, second-highest in a ~1,000-migration codebase** — staged and guarded so they go out without a maintenance window.
- **I led the Lab Test performance programme after a customer escalation: list and detail responses from 1–2 minutes to about 2 seconds** — N+1 queries removed, a count query taking 90% of each request rewritten, prefetching restructured, and a reordered frontend API call sequence I proposed.
- **IDOR vulnerabilities closed on the assignment and questionnaire APIs** — cross-organisation access checks added on live multi-tenant endpoints.
- **Recurring manual work automated away** — one-off database fixes replaced by documented, scripted fixes; the common ones are now run by tier-2 support without engineering.

#### Leadership & delivery (*technical lead since 2023*)

- **A squad of 5–6 absorbed production-incident and customer-escalation load without slipping delivery**, including shared on-call — 2–3 backend, 2 frontend and 1 QA, planned with the PM against each engineer's demonstrated strengths.
- **Two engineers promoted under my line management** — one to senior, one to staff after moving from frontend into full-stack backend work. Two more backend engineers hired and onboarded.

#### MagicGroup — Ho Chi Minh City, Vietnam

*Demand-side platform for programmatic advertising*

**Web Developer & RTB Solutions Engineer** · MagicGroup · Sep 2015 – Dec 2016

- **Millions of bid requests a day answered in the tens of milliseconds** — an RTB auction allows roughly 100 ms end to end and the network consumes most of it, which ruled out synchronous database calls on the hot path and made **tail latency the contract**. A real-time bidder built to the OpenRTB 2.3 standard (Aerospike).

#### Infory — Ho Chi Minh City, Vietnam

*Consumer web and mobile products*

**Web & Mobile Developer** · Infory · Mar 2013 – Aug 2015

- **A showtimes app covering every cinema in Ho Chi Minh City**, plus a location-based store finder — backend and Android, built end to end (Symfony 2, PostgreSQL).

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#### EDUCATION

- **BSc, Computer & Information Sciences** — Auckland University of Technology (AUT), New Zealand · joint programme with University of Science, Ho Chi Minh City

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#### LANGUAGES

Vietnamese (native) · English (professional working proficiency — daily working language for nine years)

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#### AVAILABILITY

Helsinki · full right to work in Finland · 45 days' notice