

TRUNG (TONY) THAI

Senior Full-Stack Software Engineer

Golang · Java/Spring · Node.js · Python · React · Vue — AI-Augmented Development

Vietnam | LinkedIn | Phone | Email | Meet Tony!

PROFESSIONAL SUMMARY

Polyglot senior engineer (6+ yrs) with a product/ownership mindset. Ships production systems in **Golang/Gin, Java/Spring Boot, Node.js/Nest.js, Python/FastAPI, React, and Vue** — choosing the right tool for the job across insurtech, fintech (RWA/tokenization), and IoT. Combines deep backend architecture (microservices, gRPC/REST contracts, domain-driven design) with hands-on frontend delivery and modern AI-augmented workflows.

Superpowers: System design for small teams, polyglot service architecture, multi-tenant platform design, AI agent development (Claude API + LangChain/LangGraph), AI-accelerated engineering with Claude Code, and chase-the-bottleneck performance work.

CORE COMPETENCIES

Golang/Gin/Gorm · Java/Spring Boot/Spring Cloud · Node.js/Nest.js/Express · Python/FastAPI/Django · React.js/Next.js · Vue.js/Nuxt.js · gRPC & REST API Design · Microservice & Modular-Monolith Architecture · Domain-Driven Design · PostgreSQL/MongoDB · Apache Kafka · Docker/Kubernetes · AWS/GCP · CI/CD · Claude API/Claude Code/MCP · LangChain/LangGraph · Observability & SLIs/SLOs · Blockchain/Web3

WORK EXPERIENCE

CoverGo — Insurtech, Vietnam

Senior Software Engineer

Apr 2024 – Present

- Built and maintained the Distribution platform — a multi-tenant system enabling insurance companies to configure, manage, and deliver products to end clients. Backend services in **Golang/Gin** and **Node.js/Nest.js**; frontend in **React and Vue**. Owned modules end-to-end: Party Management, Quote/Policy lifecycle, Channel Management.
- Architected platform fundamentals (**Golang + Node.js**): monorepo structure, tenant isolation, CI/CD pipelines, and cloud-agnostic deployment — establishing the engineering principles the team ships on.
- Designed workflow orchestration for insurance customer journeys using **Temporal** with **Golang** workers and **Python** data pipelines. Delivered for AXA TH; onboarding 10+ additional products in 2025.
- Spearheaded AI innovation across two tracks:
 - **Product-facing agents:** Built an Underwriting AI Agent using **Claude API (Anthropic SDK) + LangChain/LangGraph** for multi-step orchestration, with **MCP (Model Context Protocol)** integrations connecting the agent to internal underwriting tools and policy data. Driving integration into the core Distribution platform.
 - **AI-accelerated engineering:** Adopted **Claude Code** as the primary agentic coding tool — accelerating feature development, code reviews, refactoring, and test generation. Established prompt patterns and custom slash commands for team-wide adoption.
 - **Tooling & evaluation:** Integrated **Qdrant + pgvector** for vector search, **n8n** for workflow automation, and built evaluation harnesses to measure agent accuracy against underwriting guidelines.

Impact: Replaced ad-hoc services with standardized building blocks; pioneered AI-augmented engineering culture across the team. New features now ship in days, not weeks.

Backend: Golang/Gin/Gorm, Node.js/Nest.js, Python/FastAPI, Temporal

Frontend: React.js, Vue.js, Vite.js, Tailwind CSS, ShadcnUI

Infra: Docker, K8s, AWS (EKS/RDS/S3), Keycloak

AI: Claude API, Claude Code, MCP, LangChain, LangGraph, n8n, Qdrant, pgvector

Select Technology — US

Senior Software Engineer

Mar 2023 – Mar 2024

- Delivered stable IoT control-centre infrastructure for 20+ swiftlet houses and Riveira Cove (HCMC). Built real-time telemetry services in **Golang/Gin** and **Node.js/Nest.js**, with **React** and **Vue** dashboards for monitoring and device control.
- Maintained and hardened Aura Home — Select’s flagship smart-home product (**Java/OSGi** core, **React Native** mobile app) serving 1,000+ clients. Resolved bugs, patched security vulnerabilities, and improved system stability.
- Led the redesign of Aura Core Legacy: refactored the **Java/OSGi** plugin architecture, built **Python** automation scripts for testing and deployment, and exposed reusable libs/SDKs consumed by all Aura products.

Impact: Modernized a Java-based legacy core across a polyglot stack (Java, Go, Node, Python), improving release cadence and creating reusable primitives.

Backend: Java/OSGi, Golang/Gin/Gorm, Node.js/Nest.js, Python

Frontend: React.js, Vue.js, React Native, Tailwind CSS, ShadcnUI

Infra: Docker, K8s, PostgreSQL, MongoDB, Keycloak

IoT: OpenHAB, Eclipse SmartHome, Thingsboard

InvestaX — Singapore

Senior Software Engineer

Mar 2020 – Feb 2023

- Built end-to-end modules for a RWA tokenization platform: backend services in **Golang/Gin** and **Node.js/Nest.js**, frontend in **React/Next.js** — spanning centralized order management and decentralized smart-contract layers.
- Implemented an OTC Trading Engine (**Golang**) handling 10,000+ daily transactions at 99.9% uptime, with **PostgreSQL** connection-pool tuning and transactional integrity patterns.
- Re-architected the backend from monolith to microservices: defined bounded contexts, established gRPC/REST contracts, and introduced SLIs/SLOs. New services in **Golang** with legacy migration paths from **Node.js**.
- Integrated blockchain networks (Ethereum, Solana, Polygon) via **Node.js** (ethers.js/web3.js) and **Python** scripting for contract deployment and on-chain data indexing.

Impact: Decomposed a legacy monolith into domain-aligned microservices across Go and Node, enabling independent deployment and horizontal scaling.

Backend: Golang/Gin/Gorm, Node.js/Nest.js, Python, PostgreSQL, MongoDB

Frontend: React.js, Next.js, Tailwind CSS, ShadcnUI

Infra: Docker, AWS (EC2/EBS/Amplify/S3), Keycloak

Blockchain: Ethereum, Solana, Polygon, ethers.js, web3.js, Infura

Hitachi Vantara — Vietnam

Software Engineer

Jun 2019 – Feb 2020

- Delivered a Railway Map GIS proof-of-concept using **Python/Folium** for Hitachi’s digital transportation division, securing \$2M+ in project funding.
- Took over outsourced modules; stabilized and refactored the Zonar fleet management platform (**Node.js/Nest.js** backend, **React** frontend) for US operations.
- Implemented new platform modules (webhooks, logging, event processing) in **Node.js** and **Python** that supported scaling from 5,000 to 10,000+ managed vehicles by 2020.

Impact: Fast POC-to-funding loop; pragmatic refactors across Node.js and Python that stabilized enterprise growth.

Backend: Node.js/Nest.js, Python

Frontend: React.js

Infra: Docker, GCP (GCE/GCF/GCS)

GIS: Folium, Leaflet, OpenStreetMap

TECHNICAL SKILLS

Golang: Gin, Gorm, goroutines, channels, context propagation, gRPC services, pprof, table-driven tests

Java: Spring Boot, Spring Cloud, OSGi, JPA/Hibernate, Maven/Gradle, JUnit, Apache Felix/Karaf

Node.js / TypeScript: Nest.js, Express, Feathers.js, Apache Kafka consumers/producers

Python: FastAPI, Django, Flask, Folium, scripting & automation, data pipelines

Frontend: React.js, Next.js, Vue.js, Nuxt.js, React Native, Tailwind CSS, ShadcnUI

Data: PostgreSQL, MongoDB, SQL/NoSQL modeling, pgvector, Qdrant

Infrastructure: Docker, Kubernetes, AWS (EC2, EKS, Lambda, S3), GCP, CI/CD, IaC

AI & LLM: Claude API (Anthropic SDK), Claude Code, MCP, LangChain, LangGraph, n8n, prompt engineering, eval harnesses

Blockchain: Ethereum, Solana, Cosmos, Aptos/Sui, ethers.js, web3.js

SOFT SKILLS & INTERESTS

Project management (Jira, ClickUp) · Strategic & systems thinking · Product-focused mindset · AI-augmented engineering advocacy · Tech news & OSS research · Market research

EDUCATION

FPT University, Vietnam

Graduated May 2019

B.S. Software Engineering (GPA: 3.0 / 4.0)