

Lam Tran

Principal engineer working at the seam of system design and applied AI.

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I'm a principal engineer with over a decade across mobile, web, and backend systems. My work sits at the seam of system design and applied AI — taking products from architecture to production, often as the person responsible for both. Currently at Fluentjoy, leading infrastructure, backend, and the AI features driving the app's core experience.

Open to select engagements · Based in HCMC · Working with global teams

EXPERIENCE

Jun 2024 — Now

Principal Software Engineer

Fluentjoy · HCMC

Lead infrastructure, backend, and AI integration for an English-learning app built on a TikTok-style short-video model. Multi-cloud across AWS (primary), Azure, and GCP. Built the AI features powering Fluentjoy's core experience and the automated content pipeline behind it.

- Multi-cloud infrastructure ownership: uptime, cost, vendor accounts, incident response
- Agentic AI conversation tutor with dynamic role-play and pronunciation scoring
- AI translation system replacing legacy keys/values localization
- Recommendation engine tuned to user skill level and interests
- Fully automated AI pipeline: scripts → video (OpenAI / Veo3 / ImageGen) → social

Aug 2023 — Jun 2024

Principal Software Engineer

KMS Technology · HCMC

Embedded principal across two client engagements: a Big-4 R&D credentialing platform built on Web3 + AI, and a US sports-ticketing startup transitioning from monolithic Java to microservices.

- Led the Big-4 R&D engagement on a professional credentialing platform: W3C Verifiable Credentials, decentralized identity, smart contracts on Azure, Okta SSO, and an AI knowledge base modelling workforce skill sets — system design, infrastructure, PoC delivery, and stakeholder demos
- Agile lead on the sports-ticketing client delivery; partnered with the US client's core team
- Built TypeScript / Go / Python service baselines for their legacy Java → microservices migration

Jan 2021 — Aug 2023

Principal Software Engineer

ELSA Corp · HCMC

Owned the backend for ELSA's English-learning app at scale on AWS / EKS. Migrated the legacy stack into a microservices architecture, set the team's coding and CI/CD standards, and partnered with speech/AI scientists on production scoring and recommendation services.

- Architecture migration: legacy backend → microservices on EKS
- Designed and shipped SpeechAnalyzer as a new product line
- Stood up CI/CD baselines, unit + integration testing standards
- Direct partnership with the speech/AI team on the Golang scoring service

Jan 2018 — Jan 2021

Technical Architect

NashTech Vietnam · HCMC

Joined as senior, promoted to architect. Consulting and hands-on across mobile, web, backend, cloud, and blockchain. Multiple critical-timeline deliveries.

- Tech lead on an international student / university matching platform — delivered against a critical client timeline with challenging scope
- ERC-20 token, ICO campaign, and crypto-exchange application architecture
- Cross-platform mobile + multi-cloud (Azure / AWS / GCP) consulting
- Named-client engagements: a US Ivy League university campus app, a UK construction-engineering firm field tooling

Mar 2017 — Dec 2017

Full-stack Developer

Bach Tuoc So JSC · HCMC

Founding engineer for a crypto trading platform. Worn-many-hats role spanning blockchain consultation, system architecture, hands-on coding, and Ubuntu sysadmin.

Aug 2016 — Mar 2017

Backend Developer

Hunter MacDonald (Net Company) · HCMC

Scrum delivery on a UK governance management website. .NET Framework 4.5 + SQL Server, end-to-end feature ownership from database design up.

Feb 2015 — Aug 2016

Mobile Team Leader

Mobile Entertainment Corp · HCMC

Led a small team building a Windows Phone 8.1 gaming SDK (auth, ads, chat). Side projects on company social and game-event integrations.

Sep 2013 — Feb 2015

Mobile Developer

FPT Software · HCMC

Two Windows Phone 8 / 8.1 projects: maintaining a production NFL livescore app, and prototyping a movie app from scratch.

TOOLKIT

Frontend

Angular, React, Vue, Next.js, Tailwind

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|--------------------------|--|
| Mobile | React Native, Flutter, native Android/iOS |
| Backend | Node.js, NestJS, Express, .NET Core, Python (Django / FastAPI / Flask), Go |
| Languages | TypeScript, Python, Dart, C#, Go |
| Cloud & Infra | AWS, GCP, Azure, Kubernetes (EKS), Docker, GitLab CI, Ubuntu |
| Data | PostgreSQL, MySQL, MongoDB, BigQuery |
| AI / ML | OpenAI, Agentic frameworks, NLP (STT, pronunciation), Generative AI, LangChain |
| Architecture | Microservices, system design end-to-end, on-prem + cloud |

EDUCATION

BSc, Computer Science

University of Information Technology · 2009 — 2013

Focus: computer architecture, networking, algorithms, ML / data mining. GPA 7.5.

PAST WORKS

Crypto Exchange & ERC-20 ICO

NashTech · 2018 — 2021

Architected the exchange platform and ICO smart contracts for a crypto venture.

US university campus app

NashTech · 2018 — 2021

Mobile + cloud delivery for a US Ivy League university.

Construction-engineering field app

NashTech · 2018 — 2021

Field-ops application for engineers working on construction sites.

Full profile and writing at <https://lam.funitech.org/about>