

Linh Tran

Software engineering, machine learning.
I enjoy optimizing code performance to the degree possible.

About me

- I have worked with more or less most programming languages out there: low-level, academic C, C++, scripting Javascript, Python, new-born like Kotlin, Rust, Go, etc. Language-specific syntax is out of concerns.
- Glad to have made your Spotify next song recommendation a bit *faster*
- Most of my experience is 60% engineering, 40% researching. I am inclining towards roles with more researching.
- I am intrigued by the recent rise of multi-modal AI like the newly introduced Google Gemini, and would love to join related R&D endeavor.

Experience

Jan - Dec 2023 Tech lead - Sotatek, Vietnam

Out-sourced projects for clients including The Cardano Foundation (7th largest blockchain) and Devexperts

In most projects, I act as the person to understand clients' key pain points & challenges, and propose matching solutions. I supervise a small team on technical nuances and collaborate with project managers to ensure project timeline.

- Ballistic project**
- Large scale firearm identity matching system through processing 3D scans of bullets' toolmarks, trained on open *NBTRD dataset*
 - Transform search time from minutes to sub-seconds by replacing open-sourced R engine with Java implementation of *HNSW* for vector search
 - Derive from open-source algorithms (e.g *CMC*, *CMS*) a model that converts 3D scans into searchable vector embeddings

- Devexa project**
- AI solution for customer care and sales for financial service providers

Jan - Dec 2022 Senior software engineer - Garena (Sea group)

Largest mobile game company in Southeast Asia.

Build high-performance backend for event sites of leading games (i.e *League of Legends*, *Arena of Valor*), serving millions of gamers concurrently

Jan - Oct 2021 Self-employed - XSeed cloud gaming

Cloud gaming service utilizing kernel-based virtual machines and NVIDIA vGPU as game server, customized open-source *Moonlight* as clients

Jan 2018 - Dec 2020 Software engineer - Pique AI (now part of *MoMo* - largest mobile wallet in Vietnam)

Start-up providing AI recommendation service for small-medium enterprises. The AI agent can read, see, hear and understand user behavior and recommend relevant product/services. It all started with a *paper*

- This is my first official work - started while studying, convinced by a promising start-up story.
- We worked in a small team, rotating responsibilities on software engineering as well as data science
- Highlight projects:
 - Music recommendation (audio content based) for NCT - 2nd largest digital music provider in Vietnam
 - Dating recommendation (visual content based) for a Japanese client
 - Luxurious jewelry recommendation (text-visual hybrid content) for *Glamira*
- My highlight contribution: Doubled the performance of our recommendation API, by optimizing k-nearest-neighbor classifier (*Spotify's open-source pr #387*)

Education

- 2012-2019** **Computer Science** - Hanoi University of Science and Technology, Vietnam
Thesis: Learned video compression for game streaming application
- 2015-2016** **Erasmus Scholarship Exchange** - Uppsala University, Sweden

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