

Linh Tran

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

About me

- My professional experience lies 50% on engineering, 30% customer-facing and 20% team leading.
- Team player at heart

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
- Propose an alternative solution to the client's suggestion, outperform and finally convinced client to move forward with our company service. Specifically based on client's suggestion for traditional method (e.g **CMC**, **CMS**), propose a method that converts 3D scans into searchable vector embeddings

Devexa project

AI solution for customer care for financial service providers

- Propose solutions for clients' data acquisition problem
- Act as the bridge between the client and the our offshore development team

**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

* Provide suggestions to the product owners on technical trade off - game logic complexity vs performance.

* Translate product requirements into formal specifications which can be estimated for completion by development team.

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**

- Work directly with clients to understand their data acquisition policy, and then reaching a consensus on data transfer process between client & our company.
- 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

linhtran17495@gmail.com | **Phone: +84 37 4099 103** | **Github: linhtran174** | **LinkedIn: linhtran174**