

# Minh Kha Tran

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Graduate student in Computer Science with hands-on experience in developing scalable, cloud-native applications using Java, Spring Boot, and Kubernetes.

Expected graduation date in May 2026, open to relocation within the United States.

## EDUCATION

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### Western Illinois University

*Master's, Computer Science*

- **GPA: 4.0/4.0**

**August 2024 - Expected May 2026**

*Macomb, IL, USA*

### VNUHCM - University of Science

*Bachelor's, Computer Science*

**Graduated Jan 2020**

*HCMC, Viet Nam*

## PROFESSIONAL EXPERIENCE

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### Western Illinois University

*Teaching Support Assistant*

- Supported students in understanding core computer science concepts.

**August 2025 – Present**

*Macomb, IL, USA*

### NAVER Vietnam

*Backend Software Engineer*

- **NAVER Vietnam** is a subsidiary of NAVER Corporation, South Korea's leading internet company, known for its innovative services like the NAVER search engine, LINE messaging app, and advanced AI-driven platforms.
- Developed scalable fan engagement features (Calendar, Podcast) for Phoning - a **social platform** with 100K MAU and 50K DAU.
- Conducted load tests and optimized APIs to ensure system reliability, handling 10K reads/sec and 1K writes/sec with under 100ms latency per application pod.
- Prepared production environments using Kubernetes and NAVER's cloud platform, meeting stringent security audits.
  - o **Stack:** Java; Spring Boot; MySQL; Redis; Kafka; Kubernetes; NAVER Cloud; Prometheus; Grafana

**Sep 2023 – Jun 2024**

*HCMC, Viet Nam*

### MoMo (M\_Service)

*Backend Software Engineer*

**MoMo** is Vietnam's leading digital payment platform, providing millions of citizens with seamless financial services and everyday payment solutions.

- Implemented & enhanced over 10 microservices on Google Kubernetes Engine, handling 1000 RPS with 100ms response times.
- Owned optimization of ad-serving microservices, reducing latency from 1.2s to 100ms, directly impacting millions of MoMo users.
- Improved inter-service communication using Kafka and gRPC and streamlined tools for non-technical users.
  - o **Stack:** Kotlin; Google Cloud Platform; Redis; Kafka; gRPC; Kubernetes

**Apr 2022 – Aug 2023**

*HCMC, Viet Nam*

## ELCA Vietnam

*Associate Software Engineer*

Nov 2020 – Mar 2022

*HCMC, Viet Nam*

A branch of Switzerland's ELCA Group. Providing critical software solutions to the Swiss government.

- Worked on a migration project to transform a system written in 4GL into one that uses Java 8.
- Identified and resolved defects, enabling 100x faster response time.
- Set up a new Spring module for JMS message processing.
- Handle test execution and maintenance for unit tests and automation tests.
  - **Stack:** Java 8; Spring; JUnit; Maven; Selenium; Jenkins; Angular

## PERSONAL PROJECTS

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### Shopping Tracker - <https://shopping.k3k.dev>

A Progressive Web App (PWA) with React + IndexedDB for offline shopping data management. Used by 30+ active users for personal expense tracking.

- Integrated Google login, Drive backup, Analytics, and AI Studio APIs for smart item insights and automation.
- Deployed via GitHub Pages with service workers for a mobile-friendly, installable AI app.

### Steam MiniProfile Widget - <https://github.com/gamer2810/steam-miniprofile>

Shipped customizable widget adopted by 100+ websites, enabling gamers to showcase live Steam data.

- Designed customizable UI for seamless integration into personal websites.
- Reverse-engineered Steam API to fetch information.
- Implemented efficient polling + CORS handling for reliable live updates.

### K3K's Archive - <https://ark.k3k.dev/>

A personal technical blog as a full-stack project. Visited by 100+ users monthly.

- **CMS & Framework:** Used DecapCMS for content management and static site generation with Jekyll.
- **Hosting & Deployment:** Managed through Cloudflare with HTTPS, CDN, and edge caching for high performance across the globe.
- **SEO & Discoverability:** Implemented SEO best practices and submitted to Google Search Console for indexing.
- **Features:** Dynamic project showcases, Progressive Web App functionality, and interactive components for experiments in web and 3D graphics.

## CERTIFICATIONS, SKILLS & INTERESTS

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- **Certifications:** [CS50x AI Certificate](#)
- **Backend:** Java, Kotlin, Go, Python, Spring Boot, gRPC, Redis, Kafka
- **Cloud/Infra:** Kubernetes, GCP, Oracle Cloud, Redis, Kafka, Prometheus, Grafana
- **Frontend:** React, Svelte, TailwindCSS
- **Tools/CI:** Git, Maven, Jenkins, CI/CD
- **Languages:** Vietnamese, English (IELTS Academic 8.0 Overall)
- **Interests:** AI and machine learning applications, Kubernetes experimentation, and playing/making RPG games