MINH KHA TRAN

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Education

Western Illinois University   **Macomb, IL**
M.S., Computer Science   Expected 2026

VNUHCM - University of Science   **HCMC, Viet Nam**
B.S., Computer Science, GPA: 3.38   2016-2020

Experience

NAVER VIETNAM   HCMC, Viet Nam
Backend Engineer   Sep 2023 - Jun 2024

- Project: Phoning
- URL: https://play.google.com/store/apps/details?id=co.weverse.phoning&pcampaignid=web_share
- Developed and delivered a social platform for Korean idols (NewJeans) and their fans, utilizing a Spring Boot backend to support a user base of approximately 50K monthly active users.
- Acted as the main POC for two key features:
- Calendar: Enabled idols to create events and interact with fan comments.
- Podcast: Developed podcast management capabilities, integrating with streaming platforms for secure storage and distribution of podcast streams.
- Tackled technical challenges, including handling high sporadic read/write loads (10K reads/s, 1K writes/s) and implementing robust security measures to prevent unauthorized server access.
- Set up a secure production deployment environment using an in-house Kubernetes-based system, successfully passing NAVER's company security review and meeting strict compliance standards.
- Conducted benchmarking and stress tests, achieving an average latency of under 100ms and no timeout under constant heavy load conditions (15,000 concurrent users repeatedly stressing 20 instances).
- Collaborated closely with Korean software developers and management, meeting all feature launch timelines (3 months for each feature) through coordinated efforts.

MoMo   HCMC, Viet Nam
Software Engineer   Apr 2022 - Aug 2023

- Engineered and optimized a group of over 10 microservices, deployed on Google Kubernetes Engine, within a complex ecosystem of hundreds of services.
- Efficiently serve 1000 requests per second (RPS) for recommended advertisements with an average response time of 100 milliseconds to mobile applications through HTTP requests via Vert.X.
- Implemented a multi-tier caching strategy, combining local Caffeine cache and Redis, to reduce response times from 1.2 seconds to 100 milliseconds, saving thousands of dollars monthly in data query costs.
- Facilitate seamless inter-service communication through gRPC and ensure real-time data processing with Kafka.
- Provide a user-friendly platform for non-technical users to configure and manage ad campaigns.
- Gather and refine mobile application metrics, storing the valuable insights in BigQuery for data-driven ad optimization.

Skills & Interests

Technical: List computer software and programming languages and your level of fluency
- Proficient (Able to work on projects without needing significant help):
    - Java
    - Spring Framework
    - Kubernetes
    - Cloud Platform
    - MySQL
    - Redis
- Familiar (Used in personal project):
    - Python
    - Go
    - React, Angular

Language:
- Vietnamese - Native user
- English - Bilingual capacity
    - IELTS Academic 8.0 Overall
    - Credential ID: 23VN509976TRAM028A

Interests:
- Tinkering with Kubernetes
    - https://github.com/gamer2810/k3k-k8s
- Debug website to see how they works
    - https://github.com/gamer2810/steam-miniprofile
- Learn about machine learning and AI
    - https://certificates.cs50.io/7d7ad8b4-d863-4725-a82c-1b2e30227838.png?size=letter

Social links

- **https://www.linkedin.com/in/kha-3k-tran/**
- **https://github.com/gamer2810**