

MINH KHA TRAN

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SUMMARY

Software engineer with 3.5+ years of production experience designing planet-scale distributed systems, a Google Professional Cloud Architect certification, and an M.S. in Computer Science (4.0 GPA). Proven record of sub-100ms p99 latency at 100K+ MAU and real-time pipelines processing 500K+ daily events on GCP.

TECHNICAL SKILLS

Cloud & Infrastructure: GCP (Professional Cloud Architect), Kubernetes (GKE + in-house), Docker, Terraform

Languages: Java 8/11/17, Python, Kotlin

Data & Messaging: Kafka, Redis, MongoDB, MySQL

Frameworks: Spring Boot, Vert.X

Observability & SRE: GCP Cloud Monitoring, profiling, distributed tracing, production debugging, on-call incident response

AI / LLM: OpenAI API, Claude API, prompt engineering, LLM evaluation pipelines

CERTIFICATIONS [\[https://www.credly.com/users/mkt\]](https://www.credly.com/users/mkt)

- **Google Cloud - Professional Cloud Architect** (Issued June 2026)
- **Google Advanced Data Analytics Certificate** (Issued April 2026)

PROFESSIONAL EXPERIENCE

Instructor of Record & Teaching Assistant - CS101

Western Illinois University | Aug 2025 – May 2026

- Sole instructor for an interdisciplinary introductory CS course serving students from Emergency Management, Music, and Law Enforcement & Justice Administration | translating technical concepts across non-engineering mental models.
- Designed curriculum, graded assignments, and held office hours; maintained clear documentation and rubrics to ensure consistent, reproducible outcomes at scale.

Backend Engineer

NAVER | Sep 2023 – Jun 2024

- Architected and scaled high-performance Spring Boot microservices on a distributed social platform supporting **50K+ monthly active users**.
- Engineered production-grade deployments on in-house Kubernetes, achieving **100% service readiness** and fault tolerance in high-ambiguity environments.
- Designed and implemented robust backend modules in cross-functional collaboration with international product teams, reducing feature delivery time by **15%**.
- Applied advanced data structures and algorithms to handle complex application logic across distributed modules.

Backend Engineer

MoMo | Apr 2022 – Aug 2023

- Designed and enforced microservice protection strategies using the **Leaky Bucket rate-limiting algorithm** across GCP infrastructure, directly mitigating abusive resource consumption.
- Engineered high-availability architectures with **circuit breaker patterns** and distributed caching layers, improving operational reliability by **20%**.
- Optimized distributed microservices to achieve **sub-100ms p99 latency** for **100K+ MAU** using GCP observability, profiling, and deep production debugging.
- Built high-throughput, real-time marketing infrastructure processing **500K+ daily events** via Kafka event streaming pipelines.

- Deployed and orchestrated containerized services on GCP Kubernetes Engine; proactively diagnosed production anomalies to ensure continuous uptime.

Full Stack Engineer

ELCA Vietnam | Nov 2020 – Mar 2022

- Developed and maintained secure, enterprise-grade web applications for the **Swiss Government** using Java 8, Spring Boot, and AngularJS.
- Optimized backend REST APIs and database queries for reliable, compliant processing of high-security governmental data.
- Delivered scalable solutions in an agile, cross-functional international environment against strict performance and architectural standards.

EDUCATION

M.S. Computer Science | Western Illinois University

Graduated May 2026 | GPA: 4.0 / 4.0

B.S. Software Engineering | VNUHCM – University of Science

Graduated 2020