Lâm Quang Vinh

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About Me

With over **4 years of experience** in Software Engineering, specializing in system architecture and performance optimization. I am currently transitioning into AI research through a **Master of Computer Science at Hanoi University of Science and Technology**, with a specific focus on **Artificial Intelligence** and **Continual Learning**. My goal is to leverage my strong engineering expertise to bridge the gap between theoretical research and scalable machine learning implementations.

Education

2025 - Present **Master of Computer Science**
Hanoi University of Science and Technology
Research Focus: Continual Learning (Lifelong Learning), Catastrophic Forgetting mitigation.

2019 - 2023 **Bachelor of Software Engineering**
FPT University

Technical Skills

Research & AI	**Python**, Algorithms & Data Structures (LeetCode), Mathematics for CS
Backend	.NET Core, C#, SQL Performance Optimization, Microservices, CQRS
Fronted	Html, Css, Js, ReactJs, NextJS
Data & DevOps	**Kafka**, Redis, Docker, Nginx, SQL Server, MySQL, MongoDB
Languages	English, Vietnamese (Native)

Work Experience

Full-Stack Developer **Jan 2025 - Present**
CMC Global *Hanoi, Vietnam*
Project: Benefit Management

- Developed high-performance backend services using .NET and Blazor, reducing API response time by **30%** for critical user flows.
- Optimized complex queries across SQL Server and MySQL, improving data retrieval speed by **40%** and ensuring seamless integration with AWS cloud infrastructure.

Full-Stack Developer **Jan 2022 - Dec 2024**
HOPLONG TECH *Hanoi, Vietnam*
Projects: ERP System & E-commerce Integration

- **Engineering Leadership:** Led a 4-member sub-team to develop core ERP modules, enforcing Clean Architecture principles with **CQRS (MediatR)**, Domain-Driven Design (DDD), and Fluent Validation to ensure code maintainability and scalability.
- **Data Pipeline Engineering:** Solo-developed a centralized connector system to integrate APIs from multiple e-commerce platforms via Webhooks. Implemented **Kafka** with the Outbox Pattern to guarantee reliable event processing, handling **10,000+** daily transactions with **99.9%** data accuracy.

- **Database Optimization:** Architected advanced database schemas including **sharding and partitioning strategies** for large-scale datasets. Utilized Dapper for high-performance SQL interactions and resolved critical deadlocks, reducing system downtime by **90%** during peak operational hours.
- **Infrastructure & DevOps:** Managed deployment pipelines on Linux servers using **Docker** and Nginx for load balancing. Integrated **Redis Cache** to accelerate data retrieval speeds and reduce database load by **40%**.

Projects

Algorithm Practice **Github: https://github.com/vinhlq2512/Algorithm**
- Continuous practice of algorithms and data structures on LeetCode.
- *Technologies:* **Python**, C#, JavaScript.

Base Structure **Github: github.com/VinhLam2512/BaseStructure**
- Architected a robust backend foundation using .NET, CQRS, MediatR, and DDD pattern.
- Implemented Docker containerization for seamless portability and deployment.

Last Name, First Name and First Name Other Last Name (Sept. 2019). "Paper: This is the name of the paper". In: *Some Journal* 99.18, pp. 2200–2300. URL: https://some-link.com.

Last Name, First Name and First Name Again Last Name (Sept. 2022). "Paper II: This is another paper". In: *Some Journal* 99.18, pp. 2200–2300. URL: https://some-other-link.com.