

LE MINH THONG

BACKEND ENGINEERING LEADER / TECH LEAD

Ho Chi Minh City, Vietnam
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PROFESSIONAL SUMMARY

Backend Engineering Leader with 10+ years of experience architecting and delivering high-performance, scalable systems for banking, fintech, and enterprise platforms. Proven track record in designing distributed systems, real-time platforms, and AI-integrated solutions serving millions of users.

- Expert in backend system architecture, microservices design, and distributed systems patterns (CQRS, event-driven architecture, asynchronous processing).
- Led engineering teams (3–5 members) in building large-scale, high-transaction systems with strong focus on reliability, scalability, and performance optimization.
- Strong hands-on experience with real-time platforms (WebSocket), AI integration (RAG/LLM), and system performance tuning.
- Proven ability to balance architectural vision with pragmatic execution, delivering complex projects on time while maintaining high code quality.
- Deep expertise in system design, technical specifications, code review, and infrastructure optimization.

CORE SKILLS

Backend & Distributed Systems

- **Languages:** Go, Java, .NET Core, Node.js, Python
- **Architecture:** Microservices, CQRS, Event-Driven, High Availability
- **Practices:** Scalability, Performance Optimization, Fault Tolerance

AI/ML & Real-time Systems

- **AI:** RAG, LLM, LangChain, Prompt Engineering
- **Techniques:** Vector Search, Semantic Embedding, Ranking
- **Real-time:** WebSocket, Streaming, Low-latency Systems

DevOps & Infrastructure

- **Tools:** Docker, Kubernetes, CI/CD, GitHub Actions
- **Practices:** Monitoring, Alerting, Automation
- **Operations:** System Reliability, Performance Monitoring

Database

- Oracle, PostgreSQL, MS SQL Server, Vector Databases

Leadership & Architecture

- Team leadership & mentoring (3–5 engineers)
- System design & technical specifications

- Code review & best practices
- Cross-functional collaboration

Domain Expertise

- Banking & Fintech
 - Real-time Platforms
 - AI/ML (Document Intelligence)
 - ERP & Enterprise Systems
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WORK EXPERIENCE

ASIA COMMERCIAL BANK (ACB)

Technical Lead | Jan 2021 – Present

1. RAG System - AI-Powered Document Intelligence Platform

Domain: AI/ML, Intelligent Information Retrieval

- Architected and led development of a Retrieval-Augmented Generation (RAG) system for intelligent document search and question answering.
- Built high-performance document processing pipeline with advanced chunking strategies and semantic embeddings using LangChain.
- Implemented ranking algorithms to optimize retrieval accuracy and response quality for banking knowledge bases.
- Integrated LLMs for context-aware response generation enabling natural language interaction.
- Led a team of 3 engineers, mentoring on AI/ML best practices, system design, and code quality.
- Designed scalable architecture supporting concurrent users with sub-second response times.

Tech: Python, LangChain, LLM, Vector Databases, Semantic Embeddings, Ranking Algorithms

2. International Remittance - High-Transaction Banking Platform

Domain: Banking, Remittance, Compliance

- Led architecture design for mission-critical remittance systems (ARP, MoneyGram, Western Union) handling millions of transactions.
- Designed microservices architecture using CQRS for scalability, auditability, and transactional consistency.
- Architected asynchronous, queue-based processing for high-throughput transaction handling.
- Developed core backend services emphasizing reliability, fault tolerance, and system resilience.
- Implemented monitoring, alerting, and performance tracking for production environments.
- Mentored engineers on distributed systems design and performance optimization.

Tech: .NET Core, Java, Oracle, PostgreSQL, REST APIs, WebSocket, Microservices, CQRS

3. SmartPOS - Real-time Payment System

Domain: Payment, POS, Real-time Processing

- Developed high-performance backend services for POS payment processing.
- Implemented real-time transaction status tracking and notifications via WebSocket.
- Optimized system for low-latency, high-throughput payment flows.

Tech: Java, Oracle, MS SQL Server, WebSocket

4. OneLink & FamilyBank - Digital Banking Platforms

Domain: Digital Banking, System Integration

- Led technical analysis and system integration with core banking services.
- Architected scalable backend solutions for digital banking platforms.

Tech: React, .NET, REST APIs

M_SERVICE (MoMo)

Senior Software Engineer | 2021 – 2023

CRM & HR Internal Systems

Domain: Fintech, Enterprise Systems

- Developed CRM backend systems for customer management, promotions, and commissions.
- Built HR and Payroll backend systems supporting the entire MoMo organization.
- Worked with large datasets and complex business rules.

Tech: .NET, Oracle, REST APIs

FPT INFORMATION SYSTEM (FIS)

Senior Software Engineer | 2020 – 2021

Sacombank – Equipment & Warehouse Management

- Developed backend services for centralized equipment and warehouse management.
- Implemented reporting and data processing features.

Tech: .NET, MS SQL Server

Nguyen Minh Steel – Production Management System

- Developed backend modules for production planning and manufacturing workflows.

Tech: .NET, MS SQL Server

E-Health – Hospital Management System

- Developed backend modules for medical billing and insurance payments.
- Optimized systems handling high-volume healthcare transactions.

Tech: .NET, MS SQL Server

VIETNAM SAMHO

ERP & MES Developer | 2012 – 2016

- Developed ERP and MES modules including HR, Payroll, Production, and BOM management.

Tech: Java, .NET, Oracle, MS SQL Server

PERSONAL & TECHNICAL PROJECTS

VCS IoT - Production Automation Platform

Domain: Industrial Automation / IoT | Aug 2024 – Mar 2025

- Designed domain model and backend services for automation and real-time monitoring.
- Processed real-time sensor data for large-scale agricultural production (>500 hectares).

Tech: Go, PostgreSQL, REST APIs

Cashless Payment Platform - MWG

Domain: Payment, Retail | <https://mwg-eoc.goeat.vn>

Period: Mar 2023 – Present

- Designed and developed backend systems for cashless payment processing.
- Supported millions of transactions per month with reliable transaction flows.

Tech: .NET, Blazor, MS SQL Server

ERP - Purchasing, Inventory, Accounting & Production

Domain: ERP, Supply Chain | <https://erp.goeat.vn>

Period: Jan 2024 – Present

- Designed and implemented full ERP domain.
- Built scalable systems supporting industrial catering operations (~50,000 meals/day).

Tech: Next.js, Node.js, PostgreSQL

ZACO - Warehouse & Import/Export Management

Domain: Warehouse, Import/Export, Customs | <https://zaco.goeat.vn>

Period: Jun 2024 – Present

- Designed workflows for warehouse operations and customs documentation.
- Integrated e-documents and import/export processes.

Tech: Next.js, Node.js, PostgreSQL

CERTIFICATIONS & LANGUAGES

Certifications

- Design Thinking Certificate – ACB (2024)
- Data Analytics – IMIC (2023)
- Agile Project Management in Banking – IMTPM (2023)
- Money Transfer Operations Certificate – MoneyGram (2022)

Languages

- English: Reading & Technical Communication