

LE MINH THONG

BACKEND ENGINEERING LEADER / TECH LEAD

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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 that serve 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 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:**

DevOps & Infrastructure

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

Leadership & Architecture

- Team leadership & mentoring (3-5 engineers)
- System design & technical specifications
- Code review & best practices

RAG, LLM, LangChain, Prompt Engineering

- **Real-time:**

WebSocket, Streaming, Low-latency systems

- **Techniques:**

Vector Search, Semantic Embedding, Ranking

Database

- Oracle, PostgreSQL, MS SQL Server, Vector Databases

- Cross-functional collaboration

Domain Expertise

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

◆ WORK EXPERIENCE

Technical Lead

1. RAG System – AI-Powered Document Intelligence Platform

Domain: AI/ML, Intelligent Information Retrieval

- **Architected and led development** of RAG (Retrieval-Augmented Generation) system for intelligent document search and question-answering platform
- Built high-performance document processing pipeline with advanced chunking strategies and semantic embedding using LangChain
- Implemented sophisticated ranking algorithms to optimize retrieval accuracy and response quality for banking knowledge base
- Integrated LLM for context-aware response generation, enabling natural language interaction with banking documents
- **Led team of 3 engineers**, mentoring on AI/ML best practices, code quality, and system design
- Designed scalable architecture supporting concurrent user interactions 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 system (ARP/MoneyGram/Western Union) handling millions of transactions
- Designed microservices architecture using CQRS pattern for scalability, auditability, and transaction consistency across distributed services
- Architected asynchronous queue-based processing flows for high-throughput transaction handling
- Developed core backend services with focus on reliability, fault-tolerance, and system resilience
- **Mentored team** on distributed systems design, performance optimization, and coding standards
- Implemented monitoring, alerting, and performance tracking for production systems

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 and real-time partner commission distribution
- Implemented real-time transaction status tracking and notifications using WebSocket for instant updates
- Optimized system for low-latency, high-throughput payment processing

Tech: Java, Oracle / MS SQL Server, WebSocket, Real-time Systems

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)

2021 – 2023

Senior Software Engineer

CRM & HR Internal Systems

Domain: Fintech, Enterprise Systems

- Developed CRM backend systems for customer management, promotions, and commissions.
- Built HR & 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)

2020 – 2021

Senior Software Engineer

Sacombank – Equipment & Warehouse Management

Domain: Banking, Asset Management

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

Tech: .NET, MS SQL Server

Nguyen Minh Steel – Production Management System

Domain: Manufacturing, ERP

- Developed backend modules for production planning and manufacturing.
- Supported high-volume data processing for industrial workflows.

Tech: .NET, MS SQL Server

E-Health – Hospital Management System

Domain: Healthcare, Insurance, Billing

- Developed backend modules for medical billing and insurance payment.
- Optimized systems handling high-volume healthcare transaction data.

Tech: .NET, MS SQL Server

ERP & MES Developer**ERP & MES Modules**

Domain: ERP, MES

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

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

♦ PERSONAL & TECHNICAL PROJECTS

VCS IoT – Production Automation Platform

Aug 2024 – Mar 2025

Domain: Industrial Automation / IoT

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

Tech: Go, PostgreSQL, REST APIs

Cashless Payment Platform – MWG

Mar 2023 – Present

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

- 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, Acc & Prod

Jan 2024 – Present

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

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

Tech: Next.js, Node.js, PostgreSQL

ZACO – Warehouse & Import/Export Mgmt

Jun 2024 – Present

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

- Designed workflows for warehouse operations, customs documentation, and goods tracking.
- Built systems integrating 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