



LAM TAN PHAT

Backend Software Engineer

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PROFESSIONAL SUMMARY

Results-driven Backend Software Engineer specializing in building high-performance microservices and distributed systems. Proven track record in reducing API latency (cutting response time from 800ms to 480ms) and scaling platforms to 5,000+ daily active users. Advanced proficiency in Java (Spring Boot) and Python (FastAPI), with strong experience in DevOps (Docker, CI/CD) and AI/ML integration. Passionate about designing robust, maintainable architectures and delivering measurable business impact. Seeking opportunities to contribute to innovative engineering teams in the fintech or SaaS industry.

EDUCATION

FPT University

Bachelor of Software Engineering

Can Tho, Vietnam

2022 – 2026

- GPA: 3.8/4.0
- Expected Graduation: May 2026

TECHNICAL SKILLS

Backend Development

- Core Languages: Java, Python, C#, JavaScript/TypeScript
- Frameworks & Libraries: Spring Boot, FastAPI, .NET Core, Express.js, NestJS
- API Design: RESTful APIs, JWT Authentication, OAuth 2.0, API Documentation (Swagger/OpenAPI)
- Architecture: Microservices, Clean Architecture, SOLID Principles, Design Patterns

Database & Data Management

- Relational Databases: PostgreSQL, SQL Server, MySQL (query optimization, indexing)
- NoSQL: MongoDB, Redis (caching strategies)
- ORM Tools: Entity Framework, Hibernate, SQLAlchemy

DevOps & Cloud Infrastructure

- Containerization: Docker, Docker Compose
- CI/CD: GitHub Actions, Jenkins, automated testing pipelines
- Cloud Platforms: Google Cloud Platform (GCP), AWS S3
- Web Servers: Nginx (reverse proxy, load balancing)

Additional Skills

- Message Queues: RabbitMQ, Background job processing
- AI/ML Integration: Deploying Python-based AI services
- Tools & Methodologies: Git, Postman, Agile/Scrum, TDD

PROFESSIONAL EXPERIENCE

NewlySight

Software & AI Engineer (Backend Focus) — Full-Time, Hybrid

Can Tho, Vietnam

Apr 2024 – Present

- Contributed to the development of a microservices system serving approximately 5,000 daily active users, focusing on system stability and fault recovery.
- Optimized backend endpoints and database queries, helping reduce average API response time from 800ms to 480ms under load.
- Developed Python-based FastAPI services to integrate Computer Vision AI models, achieving high accuracy in image classification with optimized processing time.

- Implemented asynchronous processing using message queues (RabbitMQ/Redis) to handle computational tasks, improving overall system throughput.
- Collaborated with frontend teams to define API contracts and ensure smooth integration.

MCR Tech

Software Engineer — Part-Time, Remote

Can Tho, Vietnam
Apr 2024 – Oct 2024

- Applied SOLID principles and Design Patterns to build modular and testable code across multiple backend services.
- Designed and implemented RESTful API endpoints including security layers such as JWT authentication and Role-Based Access Control (RBAC).
- Built and maintained CI/CD pipelines using GitHub Actions to automate unit testing and deployment, significantly reducing manual deployment efforts.
- Participated in code reviews and shared best practices with team members to maintain code quality standards.

UTA Solution

Web Developer — Full-Time, Onsite

Can Tho, Vietnam
Oct 2023 – Apr 2024

- Implemented server-side rendering (SSR) logic in Next.js applications, contributing to improved SEO performance and initial page load times.
- Worked with the backend team to optimize API data structures, helping reduce payload size through efficient data querying.
- Applied code splitting and asset management strategies to enhance application performance scores.
- Participated actively in Agile ceremonies and consistently delivered features within sprint timelines.

FEATURED PROJECTS

Branify - Microservices Music Streaming Platform

Nov 2024 – Sept 2025

- **Role:** Core Backend Developer
- Designed a distributed system architecture using .NET Core, consisting of independent services communicating via REST APIs and RabbitMQ.
- Implemented Redis caching (cache-aside pattern) to reduce database load and support high concurrency.
- Managed data relationships in SQL Server (Artists, Albums, Tracks) with a focus on indexing and query performance for large datasets.
- Containerized services using Docker and configured Nginx as a reverse proxy.
- **Tech Stack:** .NET Core, SQL Server, Redis, Docker, RabbitMQ, Nginx
- **Links:** [GitHub Repository](#)

Foodaily - AI-Powered Food Recommendation Platform

Oct 2024 – Apr 2025

- **Role:** Backend Developer
- Built secure RESTful APIs using Spring Boot to handle user authentication, order management, and AI recommendations.
- Integrated a Computer Vision AI processing pipeline (Python FastAPI) for food image analysis.
- Implemented background jobs using Spring Scheduler for data synchronization and reporting.
- Designed PostgreSQL database schema and optimized queries for complex data aggregations.
- **Tech Stack:** Spring Boot, PostgreSQL, Python FastAPI, Docker, GCP
- **Links:** [Live Demo](#)

SCIENTIFIC RESEARCH

Blockchain Application in Online Certificate Issuance and Verification

2025

Role: *First Author – Lecture Notes of the Institute for Computer Sciences (LNICST)*

- Proposed a decentralized solution for educational certificate management using Blockchain to ensure data immutability and prevent degree fraud.
- Published in LNICST, Vol. 472. ISBN: 978-3-032-01471-9.
- **DOI:** [10.1007/978-3-032-01472-6_5](https://doi.org/10.1007/978-3-032-01472-6_5)

Bpids: A Blockchain-Based Personal IoT Data Storage Framework

2025

Role: *Co-author*

- Contributed to the research of a secure framework for storing Personal IoT Data with Time-Bounded Hierarchical Access Control.

- Focused on designing secure data flow mechanisms and access policy implementation.

AWARDS & RECOGNITION

- **Top 3 Nationwide Hackathon 2025**
- **Top 14 Nationwide Hackathon 2024**
- **2nd Place - Code Race FPT University 2024**
- **3rd Place - Code Work FPT University 2023**

CERTIFICATIONS

- [Software Development Lifecycle Specialization](#)
- [Blockchain Platforms](#)
- [Ethics of Artificial Intelligence](#)
- [Introduction to Git and GitHub](#)