TRAN NHAT PHI   Full-Stack Developer

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About Me | I'm a **recent Information Technology graduate** with **over 1.5 years of hands-on experience** in **software and AI development**. Through my studies, internships, and real-world projects, I've built strong **technical skills**, a solid **problem-solving mindset**, and a passion for creating **practical, scalable solutions**. I'm eager to **apply my knowledge and continue learning** while contributing to **innovative and impactful projects**. I look forward to the opportunity to bring my **skills**, **experience**, and **enthusiasm** to your team!

Skills

Technical Stack:	Java 17, .NET Core, Python (Flask API, FastAPI), Golang, gRPC microservices, Elasticsearch, Socket.IO, Jenkins, Grafana, Prometheus, Testing.
JavaScript Frameworks:	Bootstrap, Angular, Next.js.
Architecture:	Microservices, Monolithic.
Message Queues:	Kafka, RabbitMQ.
Containerization:	Docker, Kubernetes (basic).
Databases:	PostgreSQL, Oracle, MySQL, MongoDB, DynamoDB.
Caching:	Redis.
CI/CD:	Jenkins.
Amazon Web Services:	IAM, EC2, S3, DynamoDB, RDS, Lambda, Bedrock, API Gateway, SageMaker, CodeDeploy,...
Methodologies:	Object-Oriented Programming, Data Structures and Algorithms *(Codeforces rating: 1234)*.

Experience

TITKUL COMPANY LIMITED   5/2025 - 10/2025

AI Backend Developer

Technologies used: Python (Fast API), LangChain, gRPC, Elasticsearch, PostgreSQL, Vector Database, Docker, Grafana, Prometheus, AWS S3

Responsibilities:

– Designed system architecture and technical diagrams for AI-based educational solutions.
– Developed a Chatbot using RAG (Retrieval-Augmented Generation) to provide personalized consultation for preschool education, sourcing knowledge from structured CSV datasets.
– Built a custom retrieval pipeline to transform CSV data into embeddings stored in a Vector Database, enabling efficient and accurate information retrieval.
– Optimized prompt engineering and LLM prompt scenarios to improve chatbot responses tailored to educational queries.
– Deployed and monitored services using Docker, Prometheus, and Grafana.

CODEZX COMPANY LIMITED   6/2024 – 4/2025

AI Research Engineer & Developer

Responsibilities:

– Designed and implemented OCR data pipelines, including preprocessing, data augmentation, and training custom PaddleOCR models for invoice recognition.
– Integrated OpenAI GPT-3.5 Turbo API to enhance text understanding, natural language processing, and structured data extraction workflows.
– Developed automated pipelines to convert unstructured invoice text into clean, structured JSON outputs.
– Built and maintained an Angular 17 web application for interactive invoice visualization, text validation, and annotation support.
– Designed system architecture diagrams, OCR workflow diagrams, and AI service integration diagrams to support team development and documentation.
– Optimized model inference performance, reduced latency, and improved extraction accuracy through prompt engineering and post-processing refinement.
– Collaborated with cross-functional teams to deploy AI components into production environments and ensure system stability.

CODEZX COMPANY LIMITED   1/2024 - 5/2024
Intern Java Developer
Technologies used: Java 17, Spring Boot, PostgreSQL, React TypeScript, AWS RDS, Docker, Jenkins, Nginx
Responsibilities:

– Developed RESTful APIs for project management and scoring criteria modules.
– Retrieved and processed project information for contestants from CSV files.
– Participated in deploying the JudgingApp using Docker and CI/CD with Jenkins; configured HTTPS via Nginx and AWS RDS.
– Collaborated with the team to design and implement database schema and relationships.
– Implemented authentication and authorization using Spring Security with JWT; configured CORS for frontend integration.
– Designed system architecture and database diagrams to support documentation and deployment.

AMAZON WEB SERVICES VIETNAM COMPANY LIMITED   9/2023 - 2/2024
Intern DevOps Engineer
https://trannhatphi.github.io/awsDeployment/
Technologies used: Docker, AWS S3, EC2, RDS, Jenkins, GitHub Actions, CloudWatch, Nginx
Responsibilities:

– Automated deployments using Docker, AWS S3, and EC2 instances.
– Implemented CI/CD pipelines via Jenkins and GitHub Actions for backend and web services.
– Monitored AWS resources (EC2, S3, RDS) using CloudWatch metrics and alarms.
– Documented deployment procedures and designed system architecture diagrams.

Competitions & Achievements

ICPC 2025: **Qualified for and participated in the ICPC 2025 Asia Regional Contest**. Solved competitive programming problems across **DP, graphs, combinatorics, and algebraic techniques**, reinforcing **teamwork, algorithm design, and high-performance coding skills**.

IMDES2-25: Tung Le, Dat Nguyen, Nhat Le, Phi Tran, "**Comparing Transformer Models for Vietnamese News Classification on VnExpress Data**", published in *The 25th International Multidisciplinary Engineering, Design, Sciences Symposium (IMDES2-25)*.

GSET 2025: Phi Tran, Nhat Le, Huong Bui, "**Automated Invoice Processing Using OCR and NLP for Multi-format Invoices**", published in *The 2nd International Conference on Green Solutions and Emerging Technologies for Sustainability (GSETS 2025)*.

OLP Asia 2021: **Participated in the Asia-level Vietnam Student Informatics Olympiad**, practicing **high-performance competitive programming in algorithms, data structures, and optimization**.

IT GOT TALENT   12/2024
 Link: View Demo & Research Paper & Certificate
Topic: OCR Invoice Multi-Format
Organized by: Ho Chi Minh City Computer Association (HCA)

– Won the Encouragement Award at the ITGOTTALENT competition.

Projects

Social App Management   7/2025 - Present
Description: Social networking platform enabling users to connect, post, like, comment, and follow friends.
Technologies: Next.js, .NET 8, gRPC microservices, SQL Server, MongoDB, Redis, Docker, Azure Blob Storage, Python (FastAPI)

– Designed and implemented core social features (post, like, comment, follow, profile) using **.NET 8** and **gRPC**.
– Built a **FastAPI-based moderation service** to validate uploaded images and analyze post content for compliance and sensitivity.
– Integrated **Redis caching** to enhance scalability and reduce response latency.
– Implemented secure authentication and media management with **Azure Blob Storage**.
– Collaborated in mentoring junior members on backend logic and clean architecture practices.

Website Movie Filmverse   4/2025 - 7/2025
phimhaytnp.io.vn
Backend: github.com/TranNhatPhi/Movie_Streaming_V2_BE
Frontend: github.com/TranNhatPhi/Movie_Streaming_V2_FE
Tech: Node.js, Express.js, Next.js, MongoDB, JWT, Docker, elastic search

– Built automated crawler to fetch and sync movie data from OPhim.
– Developed secure authentication with JWT and role-based access control.

TOEIC App   **2/2025 - 5/2025**

nhatphi.io.vn
Backend: github.com/TranNhatPhi/App_Toiec_BE_v4
Frontend: github.com/TranNhatPhi/app_toiec_FE_v3
Tech: Node.js, Express.js, React, MySQL, JWT, WebSocket, Material-UI

- Built full TOEIC testing platform with randomization, scoring, and analytics.
- Implemented WebSocket for real-time user status updates.
- Developed admin dashboard for CSV question import and user management.
- Secured APIs using JWT and role-based authentication.

Multi-Format Invoice Recognition Website   **8/2024 - 12/2024**

Github: github.com/TranNhatPhi/deployment_OCR_Invoice   *Architecture: Microservices*
Tech: Python (Flask), PaddleOCR, GPT-3.5 Turbo, Spring Boot 3, Angular 17, MySQL, Redis, JWT

- Preprocessed and trained OCR data using PaddleOCR for invoice text extraction.
- Integrated GPT-3.5 Turbo API for intelligent document interpretation.
- Built Flask service for OCR and Spring Boot gateway for secured APIs.
- Designed Angular UI for visualizing structured invoice data.

E-Commerce Website — Electronic Devices   **3/2024 - 6/2024**

Backend: github.com/TranNhatPhi/Springboot-BE-electronic-devices
Frontend: github.com/TranNhatPhi/Angular-FE–Shop-electronic-devices
Tech: Java (Spring Boot 3), Angular 17, MySQL, JWT, VNPay

- Designed system architecture (ERD/UML) and developed product APIs with i18n support.
- Integrated VNPay for secure payment transactions.
- Implemented authentication and role-based security with JWT.
- Crawled product data automatically from Shopee categories.

Education

Ho Chi Minh City University of Technology   **2021 - 2025**

INFORMATION TECHNOLOGY   *Language: English & Vietnamese*
GPA: 3.3/4