

TIN DANG HUYNH TRUNG

Senior Software Engineer

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TinDang97

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Ho Chi Minh City, Viet Nam

TinDang97



I'm a low-key developer, take a cup of coffee, passionate about building innovative solutions that make a difference. Senior Software Engineer specializing in AI/ML Applications with 8+ years of experience designing and implementing enterprise-scale intelligent systems. Expert in full-stack development of AI-powered applications, microservices architecture, and scalable software solutions serving. Proven track record in leading engineering teams, delivering production-ready ML systems, and architecting robust software infrastructure. Deep expertise in modern software engineering practices, AI/ML frameworks, cloud-native development.

EDUCATION

Bachelor of Computer Science (High-Quality Program)

Ton Duc Thang University

2015–2019

Ho Chi Minh City, Vietnam

- **GPA: 3.2** | Relevant Coursework: Data Structures, Algorithms, Database Systems, Machine Learning
- **Research:** Researcher Intern of NewAI Lab - TDTU (2018)
- **Teaching:** Visiting Lecturer at Ton Duc Thang University (2022)
- **Teaching & Mentoring:** Data Analysis Mentor at Mindx Technology School (2023)
- **Speaker:** WORKSHOP AI FPT UNIVERSITY (2025)

PROFESSIONAL EXPERIENCE

Technical Lead - AI Chat Platform Architecture

ClickAI Viet Nam

Jun 2024 – Present | Contract & Full-time

Ho Chi Minh City, Vietnam

Leading AI startup ClickAI VN specializing in comprehensive conversational AI platform with multi-modal capabilities, serving **40K+ active users** across Southeast Asia with enterprise-grade chat solutions & Community.

- **Architected enterprise AI Chat Platform end-to-end** integrating **15+ LLM providers** with intelligent routing, load balancing, and failover; supported **multi-modal conversations** (text, image, audio, video, docs) and grew to **40K+ users in 4 months**
- **Built real-time web client with Next.js 14 & ShadcnUI, etc.** for streaming token-by-token responses via **SSE**, Edge middleware for auth/rate limits, organization workspaces, RBAC, audit trails and monetize system.
- **Engineered high-performance chat infrastructure** with **FastAPI** orchestrated by **LangChain**, deployed on **Kubernetes** and **Azure AKS & VNetwork Cloud** where it fit best; delivered **sub-2s response times**, **99.9% uptime**, and handled **1K+ concurrent sessions**
- **Advanced RAG system** using **Weaviate/Qdrant** with hybrid search, chunking policies, and citation tracking for enterprise KBs, enabling **enhanced answer accuracy** and **80% faster** retrieval. **Knowledge Graphs** using Graphiti with FalkorDB to enhance cross conversation context.
- **Intelligent routing & cost optimization** via policy-based model selection (complexity, compliance, cost/perf), A/B tests and continuous monitoring; reduced API spend by **40%** while preserving quality
- **Led a cross-functional team of 5** (Backend, Frontend, DevOps, ML) with Agile practices, code reviews, automated tests, **Dockerize (Docker)** all service, K8s - Helm deployment and CI/CD; shipped weekly, zero-downtime releases, and owned product metrics end-to-end (from discovery, prioritisation, design, build, run)

Senior Software Engineer

Trustify Technology

Jan 2024 – Mar 2025 | Full-time

Ho Chi Minh City, Vietnam

Technology consulting firm specializing in enterprise software solutions and AI/ML App integration.

- **Architected enterprise-grade software systems** serving using **Python, Node.js** with microservices architecture, implementing CQRS pattern and event sourcing, achieving **sub-200ms API response times** and **99.95% availability** on **Azure Kubernetes Service**

- **Developed AI-powered software applications** integrating machine learning models into production systems, implementing ML pipelines with automated training, testing, and deployment, improving business decision accuracy by **35%** across 10+ enterprise clients
- **Led software engineering team of 6 developers**, implementing **Agile/Scrum methodologies**, code review processes, and automated testing frameworks, establishing software quality metrics that resulted in **40% faster delivery cycles** and **95% code coverage**
- **Designed scalable API architecture** with GraphQL and RESTful services, implemented database optimization strategies using indexing and query optimization, reducing response time by **60%** and supporting **10M+ daily transactions**

Previous Experience (2019-2023)

Senior Data Engineer

Asia Commercial Bank - ACB

Aug 2023 – Jun 2024

- Architected enterprise data lake on Cludera ecosystem processing 5M+ daily transactions with 99.9% accuracy. Built automated data quality frameworks using Apache Spark, reducing manual verification by 80%. Developed FastAPI-based RESTful APIs serving 100+ internal banking applications

Software Data Engineer

Vietmoney Corp

Mar 2021 – Aug 2023

- Developed enterprise fintech platform processing 10M+ daily transactions on GCP with 99.9% uptime. Built ML applications: price forecasting (96% accuracy), Vietnamese NER (96% F1), graph-based systems (20K+ nodes). Architected distributed web scraping achieving 2x performance (1,000+ pages/hour) across 50+ platforms

Software Developer

Dai Phat Solutions

Aug 2019 – Mar 2021

- Built enterprise AI/ML Security Camera AI system (15 FPS processing) serving 20+ clients, reducing incidents by 40%. Developed face recognition system (92% accuracy) for 1,000+ employee database, reducing manual processing by 90%

Full-stack Software Developer

LogiGear Corporation

Jun 2018 – Mar 2019

- Design and develop a web3 application for users can manage their wallets, contracts, and pools. It provides features for users to exchange transactions (trade, invest, etc.) in blockchain smart contracts via MetaMask to Ethereum Network.

TECHNICAL SKILLS

Programming: Python TypeScript Node.js Java Golang SQL Rust

AI/ML: PyTorch LangChain vLLM Scikit-learn OpenCV Transformers Prompt Engineering

Web & APIs: FastAPI Flask React Next.js WebSockets/SSE RESTful APIs Microservices

DevOps & Cloud: Docker Kubernetes & Helm Git Google Cloud Platform Microsoft Azure Prometheus

Databases: PostgreSQL MySQL MongoDB Redis Weaviate Qdrant Google BigQuery ELK

CERTIFICATIONS & LANGUAGES

Professional Certifications:

- Google Cloud Technical Series - AI Agents edition (Google Cloud, 2025)
- AWS Machine Learning Foundations (Udacity, 2022)
- Agile Software Development with Scrum (Axon Active Vietnam, 2017)

Languages: English, Vietnamese

All Project & Certificates at my linkedin profile. Please check it if you interested in my best.  TinDang97