

# ANH NGUYEN HUY

SOFTWARE ENGINEER

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## Work Experience

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### INTERNET PROTOCOL VIDEO MARKET, SOFTWARE ENGINEER

Hanoi, Vietnam, Aug. 2025 - Present

- Eliminated critical delivery bottlenecks by re-architecting the LLM pipeline from on-demand to asynchronous pre-generation, **slashing content loading latency from 20s to under 1s (95% reduction) for assigned courses.**
- Developed advanced course personalization features by leveraging LLMs to dynamically adjust curriculum complexity and structure based on specific due dates, difficulty levels, and user-defined completion timeframes, **delivering highly tailored learning paths that adapt to both assigner requirements and learner schedules.**
- Led the end-to-end technical strategy for new product initiatives by partnering with Product Owners to translate research into scalable architectural designs, **ensuring the successful launch of complex AI-driven features and continuous system stability.**
- Tech Stacks: Python, Javascript, NestJS, Redis, Langgraph

### AIMESOFT JSC, SOFTWARE ENGINEER

Hanoi, Vietnam, Apr. 2024 - Aug. 2025

- Architected and implemented an advanced AI agent system for automated business presentation generation, leveraging RAG and orchestrated agent processes to **reduce presentation creation time by 80% and increase team productivity by 4x.**
- Designed and implemented advanced RAG pipelines that intelligently retrieved academic content from university knowledge bases, **cutting content preparation time for educators by 60% while achieving 95% relevance accuracy.**
- Operationalized a 7B parameter language model by optimizing it for production, which **reduced model size by 75%, decreased inference latency by 50%, and cut operational costs by 60%.**
- Tech Stacks: Python, Grpc, Kafka, Mysql, Redis, Grafana.

### FPT SOFTWARE, SOFTWARE ENGINEER

Ho Chi Minh City, Vietnam, Nov. 2021 -  
Apr. 2024

- Spearheaded the digital transformation for Vietjet Airlines by implementing advanced data solutions on the Airbus Skywise platform, **resulting in a 40% improvement in data processing speed and a significant reduction in manual errors.**
- Built and deployed a machine learning model for accurate classification of maintenance defects, **achieving 95% classification accuracy and contributing to a 15% reduction in maintenance-related delays.**
- Led the migration of airline operational data to Airbus Skywise, creating a comprehensive OTP dashboard that **reduced data retrieval times by 90% and provided real-time visibility into flight operations.**
- Developed an intelligent chatbot for company policies, **automating over 80% of common employee inquiries and significantly reducing workload on the HR department.**
- Tech Stacks: Python, Pandas, Scikit-learn, TensorFlow, PyTorch, Airbus Skywise, SQL.

## Projects

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### MINI DATABASE WITH GOLANG

2025

- Engineered a persistent Key-Value storage engine from scratch using Golang, implementing an **Append-Only Log** structure and **Index Data Structures** (B-Tree/Hash Index) to optimize disk I/O and ensure data durability.
- Architected a thread-safe Concurrency Control system to support ACID transactions, utilizing **mutex locks** and **atomic operations** to prevent race conditions and ensure data consistency during simultaneous read/write requests.
- Developed a SQL query execution layer on top of the KV store, featuring a custom parser and relational logic, enabling users to interact with the database using standard SQL syntax for complex data retrieval.

### ML MODEL DEPLOYMENT WITH FASTAPI & CI/CD

2023

- Developed an end-to-end machine learning solution to classify individuals' income using **Census Bureau data**.
- Built a RESTful API using **FastAPI** for model serving and established a full CI/CD pipeline with **GitHub Actions** for automated testing and cloud deployment.
- The final model achieved over **85% accuracy** on the test set and was successfully containerized using **Docker** for reproducibility.

## Education

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## **Skills**

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- **Programming languages:** Golang, Python
- **Technologies:** Kafka, Redis, ElasticSearch, Mysql, Qdrant, Cronjob, Grafana
- **Others:** Git, Bash, Linux.