



# TRINH LAM HOANG THINH

## FULL STACK DEVELOPER

### CONTACT

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- [github.com/HoangThinh2024](https://github.com/HoangThinh2024)
- [hoangthinh2024.github.io/Portfolio](https://hoangthinh2024.github.io/Portfolio)
- [LinkedIn](#)

### SUMMARY

Full Stack Developer with expertise in building scalable web applications using modern JavaScript frameworks, RESTful APIs, and cloud infrastructure. Skilled in machine learning, AI systems, and data processing with strong foundations in both front-end and back-end development.

### EDUCATION

**Bachelor of Information Technology** | Expected 2025  
Van Lang University  
Specialized in Software Development  
GPA: 3.16/4.0

### LANGUAGES

**English:** Professional proficiency  
**Vietnamese:** Native

### REFERENCES

Dang Dinh Hoa - Lecturer, Van Lang University  
Email: [hoa.dd@vlu.edu.vn](mailto:hoa.dd@vlu.edu.vn)

## PROFESSIONAL EXPERIENCE

### Research Assistant - AI Development

VAN LANG UNIVERSITY

August 2021 - Present

- Researched state-of-the-art language models (ChatGPT, Gemini, DeepSeek, Claude)
- Implemented computer vision algorithms for object detection using YOLO
- Developed neural networks for NLP and speech synthesis projects
- Mentored junior students in machine learning and computer vision projects

### Software Developer

TKELOG

October 2024 - December 2024

- Implemented predictive models for inventory optimization
- Developed product management system using OOP and .NET
- Reduced inventory costs by 15% through ML-powered forecasting

## PROJECTS

### Document Research System

[Document-Research-System](#)

- Developed document analysis system using NLP with BERT transformers for text understanding and contextual analysis
- Created semantic search engine with 92% retrieval accuracy on domain-specific queries
- Implemented Q&A capabilities using fine-tuned language models for information extraction
- Built knowledge graph visualization tools to display document relationships through web interface

### 3D Object Detection System

[3D\\_Object\\_Detection](#)

- Built real-time 3D object detection system using YOLOv8 with 95% detection accuracy
- Optimized for 30+ FPS performance through CUDA acceleration and model quantization
- Developed point cloud processing for accurate 3D space mapping with centimeter-level precision
- Implemented tracking algorithms with 87% accuracy in crowded scenes

### Vietnamese Text-to-Speech

[WebPythonApp](#)

- Created Vietnamese TTS using Tacotron 2 architecture and WaveNet for audio synthesis
- Developed audio preprocessing pipeline for Vietnamese speech data with tone markers and dialect variations
- Built web interface with Flask for real-time text input and voice generation
- Implemented multiple voice profiles for different regional Vietnamese accents

## SKILLS

|                                   |  |
|-----------------------------------|--|
| <b>AI &amp; Machine Learning:</b> | Deep Learning, Computer Vision, NLP, Reinforcement Learning, Speech Recognition            |
| <b>Frontend:</b>                  | React, Vue.js, Angular, JavaScript/TypeScript, HTML5, CSS3, SASS, Redux, Responsive Design |
| <b>Backend:</b>                   | Node.js, Express, Django, Flask, ASP.NET Core, RESTful APIs, GraphQL                       |
| <b>Programming:</b>               | Python (Advanced), PyTorch, TensorFlow, OpenCV, scikit-learn, C#, .NET                     |
| <b>Databases:</b>                 | MongoDB, PostgreSQL, MySQL, Redis, Elasticsearch, SQL, NoSQL                               |
| <b>Data Processing:</b>           | PySpark, Pandas, NumPy, ETL, SQL, Data Visualization                                       |
| <b>DevOps &amp; Tools:</b>        | Git, Docker, AWS, Azure, CI/CD, Jupyter, CUDA, GPU Optimization                            |
| <b>Soft Skills:</b>               | Research, Problem-solving, Technical Documentation, Team Collaboration                     |