

EDUCATION

Vietnam-Korea University of Information and Communication Technology (VKU)	2021 – 2026
<i>Engineer in Global Information Technology</i>	<i>GPA: 3.47/4.0</i>

EXPERIENCE

SafeHorizons Software Services Co., Ltd <i>Software Engineer</i>	Da Nang, Viet Nam <i>Aug. 2023 – May 2024</i>
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- Designed and developed a full-scale **agricultural marketplace** from scratch, directly connecting farms with consumers and investors, contributing to a successful platform launch and **rapid user adoption**.
- Implemented an efficient **background task processing** system and **caching mechanism**, resulting in a **40%** reduction in page load time and **real-time** product availability updates.
- Identified and resolved over **50 critical bugs** in the platform's help and support system, significantly improving **stability** and **user satisfaction**.
- Optimized **database queries** and **API endpoints**, achieving a **25%** reduction in transaction processing time and enhancing system **reliability** under load.
- Developed comprehensive **automated test coverage**, leading to a **40%** decrease in production incidents and improved **code quality**.
- Leveraged **Docker** and **CI/CD pipelines** for consistent and automated deployments across development and production environments, including **nitrogen printing systems** for agricultural documentation.
- Technologies:** Django REST Framework, PostgreSQL, Redis, Celery, JWT, Docker, Git, CI/CD

PROJECTS

Emergix - Unified Emergency Operations & Planning Platform <i>The 33rd Vietnam IT Student Olympiad - PROCON VIETNAM</i>	November – December 2024 <i>Third Prize - Open Source Software Category</i>
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- Participated in **brainstorming** and **conceptualizing** ideas for the competition
- Analyzed, designed, and developed the **Communities Module** (one of three core modules)
- Developed the **LLM Service** using **GPT API** with **RAG** and **FAISS** as the Vector Database
- Built the **Notification Service** using **SMTP** (email) and **Twilio** (SMS) for **real-time alerts**
- Implemented **containerization** and deployment using **Docker**
- Wrote comprehensive **documentation** for maintainability and knowledge sharing
- Technologies:** Appsmith, Strapi, Dify, SMTP, Twilio, Python, JavaScript/TypeScript
- GitHub:** github.com/vku-open-source

GuardianNet – AI-powered Online Protection Tool <i>GDGOC Hackathon Vietnam 2025</i>	April 2025 <i>Top 5 in Central Region, Team Leader</i>
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- Built a **browser extension** (Chrome, Edge, Brave) integrating a **multi-task AI model** to automatically scan and blur images containing violent content while detecting human presence before display
- Combined **text processing** to filter profanity and abusive language, allowing hiding or replacing with **[**]** characters
- Provided Options interface for users to configure **sensitivity levels**, whitelist/blacklist, and a **transparent dashboard** for parents/teachers to view detailed reports
- Designed **Responsible AI architecture** ensuring fairness, transparency, and user data privacy protection
- Trained a multi-task model (violence detection + human detection) on **MobileNetV2**, achieving **98.5% accuracy**
- Developed the extension with **Plasmo** (Manifest V3, content script & background script) for **real-time processing**
- Technologies:** Multi-task Learning, MobileNetV2, TensorFlow/Keras, Plasmo, JavaScript/TypeScript, Python
- GitHub:** github.com/Thienguyen21it/GDGOC-hackathon-2025-AIGenerated

HONORS & AWARDS

Google Developers Groups On Campus Hackathon Vietnam 2025

May 2025

Top 5 in Central Region, Team Leader

Third Prize - Open Source Software Category

December 2024

The 33rd Vietnam IT Student Olympiad - PROCON VIETNAM

VKU Robocar Innovation Contest

May 2023

Consolation Prize

English Talent Competition VKU

October 2022

Third Prize