

# Huyen Le

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## WORK EXPERIENCE

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- **FPT AI Residency** HCMC, Vietnam  
*AI resident* *Aug 2023 - present*
  - Efficient code generation with LLMs and performance modeling
  - Reasoning with LLMs
- **VietUnion Online Services Corporation (Payoo)** HCMC, Vietnam  
*Research Intern* *Dec 2022 - Jul 2023*
  - Anomaly detection in digital bank transactions
- **ML4ED Laboratory - Summer@EPFL** Switzerland  
*Research Intern* *Jun - Sep 2022*
  - Knowledge tracing models for students' knowledge representation and performance prediction
- **Software Engineering Research Laboratory - University of Science** HCMC, Vietnam  
*Research assistant* *Nov 2021 - Feb 2022*
  - Test case prioritization and generation using machine learning
- **Big O Coding** HCMC, Vietnam  
*Teaching Assistant + Tutor (for algorithms courses)* *Oct 2020 - present*

## EDUCATION

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- **University of Science, Vietnam National University Ho Chi Minh** HCMC, Vietnam  
*Bachelor of Computer Science - Advanced Program in Computer Science* *Graduated: Nov 2023*
  - GPA: 3.94/4.00 - Top 5 students graduated with highest GPA in Advanced Program in Computer Science
- **Nguyen Binh Khiem High School for the gifted** Vietnam  
*Mathematics class* *Jul 2016 - Jul 2019*

## HONORS AND REWARDS

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- Third Prize in Mathematics in National Academic Competition 2018
- Silver medal in Mathematics in Regional Olympiad 2017, 2018

## RESEARCH PROJECTS

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- **Efficient code generation with LLMs and performance modeling module** 2023
  - Finetuning LLMs on a new task of performance prediction. Exploring the integration of performance modeling module for enhancing code generation ability of LLMs
- **Anomaly detection in digital payment transactions** 2023
  - Proposed the use of graph embedding to represent the relationship between different entities involving the transactions, and trained a Variational Autoencoder (VAE) model using such embeddings to detect anomaly transactions
- **Knowledge tracing model for an educational game** 2022
  - Implemented knowledge tracing models to analyze students' learning behaviors and predict their future performance

## ACTIVITIES

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- **SheCodes Hackathon** 2019
  - First Place in Environment Challenge
- **Google Developer Students Clubs - HCMUS** 2021
  - Content leader for cs101 workshop - a workshop about essential skills in programming such as using git, GitHub, vim, etc.

## SKILLS

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- **Programming languages:** C++, Python, Java, SQL, Javascript
- **Frameworks/Tools:** PyTorch, PyTorch Lightning, Tensorflow, Deepspeed, Spark, React