

Long Phan

lnp26@case.edu • Cleveland, OH
[linkedin.com/in/Long-Phan-3110](https://www.linkedin.com/in/Long-Phan-3110) • github.com/justinphan3110

EDUCATION

Case Western Reserve University

Expected May 2022

Bachelor of Science in Computer Science

Concentration: Artificial Intelligence / Software Engineering

Cumulative GPA: 3.48

Relevant Courses: Introduction to programming in Java, Data Structures, Discrete Math, Software Craftsmanship, Operating System, Algorithms, Probability, Database Systems, Software Engineering, Artificial Intelligence, System Programming

EXPERIENCE

Zalo Group: AI Engineer Intern; April 2020 - present

- Researched and Developed a system translating domain specific natural language questions into Knowledge Graph's Query.
- Improved previous techniques and models with more than 0.97 accuracy score
- Worked on a paper named "**Hierarchical Transformer model for Vietnamese Spelling Correction**" proposing an unprecedented attempt into using multiple Transformer encoders that utilize both character-level and word-level to detect errors and make corrections in Vietnamese spelling
- Introduced a first official dataset for bench-marking Vietnamese spelling correction system
- Pre-trained Models used: BERT(Bidirectional Encoder Representations from Transformers), RoBERTa, PhoBERT

VNG Corporation: AI Software Engineer Intern; May - August 2019

- Initiated and led the development of an agnostic Named-entity recognition (NER) module capturing and resolving date/time text into structured data for Ki-Ki
 - Built an algorithm and rule-based system resolving structured time data for Vietnamese Lunar Calendar questions **based on FacebookAI Duckling**
 - Turned Kiki into the first Conversational Agent fully support Vietnamese Date/Time (both solar and lunar day)
 - The module has been deployed for 80 million users on [Zing Mp3](#) and extensible as a core NER solving other Natural Language Processing problems for Ki-Ki
-

PROJECTS

Machine Learning Accessibility Initiative: January 2020 - present

- A web application platform that uses deep learning analysis of input data to provide customized machine learning capabilities for users with no experience in artificial intelligence
- Built with Python Django, MongoDB, ReactJS, GatsbyJS, Google Cloud Platform

CWRU Fast Class Search: October 2019 - present

- Entrepreneurship project advised by Professor Ronald Loui
- Initiated and full-stack developer of a distributed, multitenant-capable full-text search engine for more than 6000 classes at Case Western Reserve University
- Built with Elastic Search, MongoDB, Python Scrapy, Docker, ReactJS, Google Analytics

HackCWRU-2020 Organizer: Case Western Reserve University, Spring 2019 - present

- Organized the university's annual MLH Hackathon and main developer for [HackCWRU-2020](#)'s official website
-

SKILLS

Programming Language: Java, JavaScript, Python, R

Software and Frameworks: Java Vertx, Kafka, ReactJS, React-Native, Flask, Express.js, RestAPI, Elastic Search, Kibana, MongoDB, Docker, SQL, Linux Environment