Long Phan

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EDUCATION

Case Western Reserve University Expected May 2022
Bachelor of Science in Computer Science
Concentration: Artificial Intelligence - Natural Language Processing / Software Engineering
Cumulative GPA: 3.48

EXPERIENCE

Zalo Group: AI Engineer Intern; April - October 2020

- Researched and Developed a system translating domain specific natural language questions into Knowledge Graph's Query.
- Improved previous techiques 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 a **first agnostic Named-entity recognition (NER) module** capturing and resolving date/time text into structured data for Ki-Ki, the first Vietnamese intelligent personal assistant
- Built an algorithm and rule-based system resolving structured time data for Vietnamese Lunar Calendar questions **based on FacebookAI Duckling** in **Haskell**
- Created a Java-Bridge through Haskell Foreign Function Interface (FFI) and Native C that is highly scalable and offers type safety
- 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, 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 Univeristy
- 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