

Phu Duc Nguyen

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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech)

Expected Graduation: May 2024

Bachelor of Engineering in Computer Science

WORK EXPERIENCE

ISTT Co., Ltd

Software Developer Associated

May 2023 – Present

- **Architecting** a multi-stage pipeline system by combining both parallel programming and asynchronous programming to optimize running time and resources. Currently reaching an accuracy rate of 88% on test data
- **Developed** a robust, end-to-end NLP SMS anti-spam system using Python, Spark, BERT and Ensemble Learning, achieving 90% accuracy.
- **Built** a highly scalable ETL pipeline which extracts data from multiple different external sources, transforms and dumps data into data lake.

Software Developer Intern

Aug 2020 – Dec 2020

- **Implemented** a scalable API that enhanced Spoofing's detection capabilities for fraudulent calls, reaching an improvement of 95% detection for a telecommunication customer company.
- **Improved** the micro-service system architecture by deploying tasks using the JHipster platform.
- **Assisted** a team of senior developers in implementing REST API with the Spring Boot framework and optimized data accessibility by creating API endpoints to read data from SQL databases.

ADT Creative

Front-end Developer Intern

Jul 2018 – Aug 2018

- **Designed** intuitive and responsive websites using JavaScript, HTML and CSS.
- **Utilized** Microsoft Office suite for document formatting, data analysis, and presentation creation, demonstrating a well-rounded skill set.

PROJECTS

JobScraper

July 2023 - Present

- **Technologies:** Python, Flask, MySQL, JavaScript, HTML/CSS
- Developed an aggregator platform for job listings from LinkedIn, indeed, and ZipRecruiter using Python libraries.
- Leveraged MySQL as the database management system to efficiently store and manage aggregated data.
- Features a user-friendly UI using Flask that allows real-time queries, customizable search criteria, and a dynamic result display.

YourFlight

April 2023 – Present

- **Technologies:** Python, PySpark, Airflow, PostgreSQL, Elasticsearch, Logstash, Kibana
- Programmed a flight price tracking application that scrapes real-time data from Kayak and Google Flights.
- Processed data using PySpark, orchestrated data collection and transformation workflows using Airflow to streamline the process.
- Used PostgreSQL as the database management system, then stored on AWS S3. Analytics and logs are handled using ELK stack (Elasticsearch, Logstash, and Kibana).

Subscription Streaming Service Website

Aug 2022 – Oct 2022

- **Technologies:** Python, Tailwind CSS, Django
- Designed a user-friendly streaming service website using Python Django, with robust user authentication, email validation, and password security features.
- Improved website aesthetics and responsiveness using Tailwind CSS, enhancing the overall user experience.
- Integrated SQLite database with Django for dynamic data querying and display.

SKILLS | CERTIFICATION

- Java (Spring boot, JHipster), Kotlin, Golang, Python, C Programming language, Apache Hadoop, Spark, Airflow, Docker, Kubernetes, Assembly (x86, RISC-V), SQL (PostgreSQL, SQLite), HTML5, CSS (TailwindCSS).
- [HackerRank Java \(Basic\) Certificate](#), [HackerRank Problem Solving \(Basic\) Certificate](#)