Duc Huy **Nguyen**

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EXPERIENCE

Snowflake Inc.   May 2022 – Aug 2022
Core Software Engineer Intern — Java, C++

MTI Vietnam AI Lab   Mar 2021 – July 2021
AI Engineer Intern — Javascript, TypeScript, C#, Python
- Maintained an old Proof of Concept frontend codebase using .NET Blazor Framework in C#
- Developed a frontend web application to query API requests history using AngularJS in Typescript
- Authenticated requests to access transaction history using Cognito and AWS Lambda
- Stored and retrieved transaction history on DynamoDB

FPT AI   May 2020 – Aug 2020
AI Intern — Python, Javascript
- Researched an invoice information extractor using Deep Learning library Tensorflow and Image Processing library OpenCV
- Developed a website to showcase the unit's products using ReactJS framework

CWRU Department of Computer and Data Science   Aug 2021 – Present
Teaching Assistant
- Course: Software Craftsmanship, Algorithms
- Holding weekly office hours to help 50 students with course-related topics
- Grading programming assignments and quizzes for students

AWARDS

International Collegiate Programming Contest (ICPC)   2019 – 2021
- Participated for CWRU ICPC team and achieve the First North American Championship in 2020
- North America Championship: Placed 7th in 2021 and 16th in 2020
- North America East Division Championship: Placed 10th in 2020
- East Central Regional Contest: Placed 6th in 2020 and 6th in 2019

PROJECTS

Parody Essay Generator — *Javascript, C++, NodeJS*   ○
- Developed a website generating essays based on a given prompt
- Developed back-end using NodeJS to handle requests
- Implemented essay generation algorithm using C++ by switching synonyms and sentence formations

YACHT Events Manager — *Java, Dart, Flutter, AndroidSDK, Gradle*   ○/yacht
- Developed an app allows users to schedule events and stream news using Dart, Java & Kotlin
- Streamlined most trending news and tweets from Twitter and Reddit with minimal latency
- Utilized Flutter to create a UI that displays most trending news and users' upcoming events
- Implemented calendar's features allowing users to schedule up to 1000 events using Java & Kotlin

Discord Talkshow Overlay — *TypeScript, NodeJS, DiscordJS, Socket.IO, AngularJS*   ○/talkshow-bot
- Developed a real time streaming pipeline for streamers to displays viewers' chats from Discord channels to streaming platforms
- Designed a customizable overlay using AngularJS that allow streamers to change size and the number of chats being displayed
- Utilize Socket.IO and DiscordJS to stream chats and filter inappropriate messages from multiple Discord channels

SKILLS

Languages C++, Java, Python, C#, Typescript, JavaScript, C, Racket
Tools Gradle, NodeJS, ReactJS, Tensorflow, OpenCV, Tkinter, Blazor, AWS Lambda, DynamoDB, AngularJS, SQL, Docker, MongoDB
Skills Data Structure and Algorithms, Computer Vision, Optimization Algorithms, Machine Learning, Data Science, Fullstack Developer, Functional Programming

EDUCATION

Case Western Reserve University   Aug 2019 - Dec 2023
Bachelor of Science in Computer Science   GPA: 4.00
Coursework Data Structure, Algorithms, Operating System, Concurrent Programming, Database, Software Engineering, Computer Networks, Linear Programming, Programming Language Concepts