

# 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 7<sup>th</sup> in 2021 and 16<sup>th</sup> in 2020
  - North America East Division Championship: Placed 10<sup>th</sup> in 2020
  - East Central Regional Contest: Placed 6<sup>th</sup> in 2020 and 6<sup>th</sup> 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 
- 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 
- 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
- Tools** Gradle, NodeJS, ReactJS, Tensorflow, OpenCV, Tkinter, Blazor, AWS Lambda, DynamoDB, AngularJS, SQL, Docker
- Skills** Generation Algorithms, Computer Vision, Optimization Algorithms, Machine Learning, Fullstack Developer

## EDUCATION

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