

# Duc Huy Nguyen

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

## EXPERIENCE

- Snowflake Inc.** Sep 2022 – Nov 2022  
*Software Engineer Intern @ Data Privacy — Java, C++*
- Uber Technologies Inc.** June 2022 – Aug 2022  
*Software Engineer Intern @ Data Security — Java, Python, SQL, Hive, Spark, Presto*
- Conducting analysis on data lake log system using **SQL**
  - Improving data lake cache's performance using Machine Learning to estimate priority partitions using **Spark**
  - Maintaining data workflow for propagating data and access prediction using **PySpark**
- MTI Vietnam AI Lab** Mar 2021 – July 2021  
*Software 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

- Electronic Trading Challenge (ETC) by Jane Street** 2022
- Placed 1<sup>st</sup> in ETC 2022 hosted at Seattle
- 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

- YACHT Events Manager** — *Java, Dart, Flutter, AndroidSDK, Gradle*  yacht
- Developed an app allows users to schedule events and stream news using **Dart, Java & Kotlin**
  - Utilized **Flutter** to create a UI that displays users' upcoming events
  - Implemented calendar's features allowing users to schedule 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
  - Designed an overlay using **AngularJS** allowing streamers to customize the appearance
  - Utilized **Socket.IO** and **DiscordJS** to stream chats and filter inappropriate messages from multiple Discord channels

## SKILLS

**Languages** C++, Java, Python, C#, Typescript, JavaScript, C, Scheme, Haskell, Prolog, SQL  
**Tools** Gradle, NodeJS, ReactJS, Tensorflow, OpenCV, Tkinter, Blazor, AWS Lambda, DynamoDB, AngularJS, Docker, MongoDB, Cabal, Servant  
**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