

# Duc Huy Nguyen

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## EXPERIENCE

### Amazon

Sep 2023 - Nov 2023

Software Development Engineer Intern @ AWS AppRunner — Go

### Databricks Inc.

May 2023 - July 2023

Software Engineer Intern @ Workspace Lifecycle — Scala, SQL

- Developed and integrated user-defined tags during workspace CRUD operations using **Scala**
- Established an event logging system for workspace updates utilizing **Kafka**
- Authored example **SQL** queries to track and monitor workspace lifecycle

### Snowflake Inc.

Sep 2022 – Nov 2022

Software Engineer Intern @ Data Governance — Java, SQL

- Implemented new tagging features for database object governance using **Java**
- Implemented user's object tag lineage view by **SQL**
- Reduced view creation time by **90%** through queries optimization and analysis

### Uber Technologies Inc.

June 2022 – Aug 2022

Software Engineer Intern @ Data Security & Compliance — 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**
- Stored and retrieved transaction history on **DynamoDB**

## 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 1<sup>st</sup> 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

### Discord Talkshow Overlay — TypeScript, NodeJS

🗨️/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, Go

**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