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 1st in ETC 2022 hosted at Seattle

International Collegiate Programming Contest (ICPC)   2019 – 2021
- Participated for CWRU ICPC team and achieve the 1st 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

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 - May 2024
Bachelor of Science in Computer Science
Coursework Data Structure, Algorithms, Operating System, Concurrent Programming, Database, Software Engineering, Computer Networks, Linear Programming, Programming Language Concepts