


# DUC NGUYEN

 [ducndh.github.io](https://github.com/ducndh)

 [nguyend@carleton.edu](mailto:nguyend@carleton.edu)

 +1 507 321 1688

**LINKEDIN:** [linkedin.com/in/ducndh](https://www.linkedin.com/in/ducndh) | **GITHUB:** [github.com/ducndh](https://github.com/ducndh)

## EDUCATION

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### Carleton College

BA in Computer Science/Statistics with Mathematics Minor

GPA: 3.87/4.00; Major GPA (Computer Science): 4.00/4.00

**Relevant Courses:** Machine Learning, Data Structure, Algorithm, Database Structure, Parallel and Distributed Computing, Software Design, Complexity and Computability, Introduction to Computer System, Operating System, Quantum Computing

Northfield, MN, U.S.

Expected June 2023

## EXPERIENCES

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### FPT Information System

Software Engineer Intern

Hanoi, Vietnam

June 2022 – Sep 2022

- Implemented deployment strategy to reduce downtime during node maintenance and failure on Openshift cluster by 40%
- Updated storage process of critical data pipelines to include quality checks and deploy necessary rollbacks for weekly integration of new data from customers and vendors, which reduces data processing and analyzing average time by 15%

### Vingroup Big Data Institute (VinBigData)

Fullstack Engineer Intern

Hanoi, Vietnam

May 2021 – Dec 2021

- Developed a new system to streamline the process of uploading new data and training machine learning models, and automate testing new models on existing data or in-house models on new data with Python, FastAPI, and PostgreSQL, which reduce the time other data scientists spend on preparing data and testing models by 30%
- Sped up the service of cleaning data and running machine learning models with Apache Spark and RabbitMQ by 20%
- Implemented a service to deploy and manage environments through click-based UI with Docker, Kubernetes, AWS, React
- Created a database of 12TB of gene data that can be analyzed and queried in near real-time with Cassandra

### Mobifone Vietnam

Mobile App Developer Intern

Hanoi, Vietnam

June 2020 – Sep 2020

- Integrated a new log-in workflow with biometric locking for employees' work management app in React Native for iOS and Kotlin for Android, which heavily increased security and reduced the time spent on the log-in process by 90%.
- Implemented One Time Password to temporary grant access to time cards and documents using Kotlin, Android Studio
- Updated APIs of a task-assigning service to include team & role creation and management with Java, Spring MVC

### Vingroup Big Data Institute (VinBigData)

Backend Engineer Intern

Hanoi, Vietnam

June 2019 – Sep 2019

- Built a service to monitor file change and back up tens of GBs of research data on several UNIX servers using Django
- Created an Elasticsearch demo to help with future implementation of research data storing and searching system

## PROJECTS

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### Book Recommendation Website (Python, Flask, PostgreSQL, JavaScript) [<https://github.com/zlxity/cs257>]

A website for users to look up books information and receive recommendations based on categories and other readers' list

### Wikipedia Browser Extension (React) [<https://github.com/ducndh/wp-browser-extension>]

A browser extension for Wikipedia to look up information about trending pages such as number of views and average view time and show a group of essential links when researching some common topics

### Personal Portfolio Website (CSS, HTML, JavaScript, jQuery) [<https://github.com/ducndh/ducndh.github.io>]

My personal portfolio website was created by using CSS, HTML, JavaScript, and external libraries/frameworks such as jQuery, Bootstrap 4, and Font Awesome toolkit

### Coding Projects (Python, Java, C, C++) [<https://github.com/ducndh/Coding-Projects>]

Compilation of coding projects: Battleship game, Maze Solver, Simple Multi-threading OS

## LANGUAGES & TECHNOLOGIES

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**Programming Language:** Python, Java (proficient), Bash, SQL, JavaScript/HTML/CSS, Kotlin, C, C++, Scala, Go

**Framework/Tool:** AWS, OpenShift, Docker, Kubernetes, FastAPI, Django, PostgreSQL, MySQL, MongoDB, Elasticsearch, Apache Kafka, RabbitMQ, React, React Native, Android Studio, Xcode, IntelliJ, Git, Apache Spark, Hadoop