

PHUONG Q. NGUYEN NGOC

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

EDUCATION

Colby College, Waterville, ME

Major: Computer Science; Minor: Economics

Relevant courses: Mathematical Data Analysis & Visualization, Intro to Statistics & Data Science, Data Structures & Algorithms, Computer Organization, Linear Algebra, Computer Game Design, Programming Languages, Multivariable Calculus & Series

Award: The Linde Packman Lab for Biosciences Innovation Grants – Colby College (2021)

Bachelor of Arts, May 2023

GPA: 4.1/4.3 (Major: 4.1)

University of Oxford, Oxford, UK

Major: Computer Science; Minor: Economics

Relevant courses: Machine Learning, Databases

Visiting Program, Oct 2021 – Jun 2022

GPA: 3.9/4.0

SKILLS

Proficient: Python, Java, Jupyter notebook, Azure DevOps, GitHub, Selenium, Postman

Familiar: Computer Vision, TensorFlow, Keras, scikit-learn, Agile Methodologies, Jira, JavaScript, C, Power BI, R

RELEVANT EXPERIENCE

The Jackson Laboratory

DevOps Engineer Intern (Azure DevOps, Power BI, Postman, Python)

Collaborated in a team of DevOps Engineers on 3 major projects:

- Designed a common data model that harmonizes data coming from three different sources into a standard schema that is universal in the medical profession to enable data sharing across platforms and institutes
- Constructed an end-to-end pipeline that cleans, restructures, and codifies over 1600 medical test results using Azure DevOps to support genomics research on cancer
- Streamlined the data transformation process by building a data portal to replace the current data import method using Excel

Bar Harbor, ME

June 2021 – August 2021

VNG Corporation

Machine Learning Engineer Intern (TensorFlow, Keras, Python)

- Built and trained deep learning models that handled specific tasks, constituting a sequence of models in the engine pipelines
- Boosted the accuracy of a receipt recognition engine by 25% by building a regression model that outputs the skew angle of the input images and a classification model that categorizes the receipts of 5 supermarkets
- Achieved a 99.93% accuracy for an Optical Character Recognition (OCR) model that reads Vietnamese ID documents, playing the core role in a technology that digitalizes the customer onboarding process in banking

Hanoi, Vietnam

September 2020 – June 2021

Outdoorly

Software Engineer Intern (Selenium, BeautifulSoup, Pandas, Python)

- Created web scraping tools that extracted data from websites that synthesized information about professional outing trainers and service providers
- Enriched the company's database of prospective partners by approximately 1,000,000 data points using the tools

New York, NY

May 2020 – August 2020

Colby ITS Support Center

Student Technician

- Diagnosed and troubleshooted classroom's technical issues to ensure the least interrupted learning experience
- Consulted students and faculty members with the installation and usage of software and hardware to help them leverage the technological tools that the school offers

Waterville, ME

September 2019 – March 2020

PERSONAL PROJECTS

Handwriting Recognition (Jupyter notebook, NumPy, SciPy, matplotlib, Python) [\[link\]](#)

- Implemented Principal Component Analysis and a Radial Basis Function Neural Network from scratch to recognize handwritten digits with an accuracy of 90% on MNIST test set

May 2021

Email Spam Classification (Jupyter notebook, NumPy, SciPy, matplotlib, Python) [\[link\]](#)

- Implemented the Naïve Bayes and K Nearest Neighbors (KNN) algorithm from scratch to classify emails into spam or ham with an accuracy of 84% (using Naïve Bayes) and 92% (using KNN) on Enron spam email dataset

May 2021

War over Sushi Bar game project (LCM, Python) [\[link\]](#)

- Led a team of 3 developers to program an offline 2-player shooting game whose setting is in a sushi restaurant
- Integrated Lightweight Communication Marshalling to build a simple server and enable the game to be played on 2 computers

January 2020

EXTRACURRICULAR ACTIVITIES

Developer Student Club, Vietnam National University

Public Relations (PR) lead

- Headed a team of 4 PR members to manage the club's publicity campaigns
- Expanded the club's network by collaborating with 3 other Tech societies and inviting speakers to the club's events
- Improved the members' PR skills by organizing regular training sessions

Hanoi, Vietnam

October 2020 – September 2021