

# Phi Henry Nguyen

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## EDUCATION

**Carnegie Mellon University** • GPA: 3.75/4.0

**AUGUST 2019 - MAY 2023**

*B.S. Information Systems, Additional Minors in Computer Science, Software Engineering, and Human Computer Interaction*

**Coursework:** Computer Systems • Software Construction, Design, & Concurrency • Application Design & Development • Designing Human Centered Software • Software Engineering for Startups • Functional Programming • IS Consulting Project

## WORK EXPERIENCE

**Software Engineering Intern • Schonfeld Strategic Advisors**

NEW YORK, NY • JUNE 2022 - PRESENT

- Building interactive machine learning models and data visualization tools for portfolio managers and analysts on the Risk application technology team with Shiny, Python, React, and Kdb+

**67-272 Head Teaching Assistant • CMU Information Systems Department**

PITTSBURGH, PA • JANUARY 2022 - MAY 2022

- Led lab sessions and office hours covering key topics in web application design and development using Ruby on Rails

**Full Stack Software Engineering Intern • Cisco Meraki**

SAN FRANCISCO, CA • AUGUST 2021 - DECEMBER 2021

- Developed a user workflow with React and Rails in Meraki Dashboard to enable data collection of consumer cameras for video object detection training and increased the flow of user-generated training data for camera ML models by over 500%
- Integrated end-to-end testing with Javascript and Cypress into the Meraki Vision Portal's Gitlab CI/CD pipeline

**Software Development Engineer Intern • Amazon**

SEATTLE, WA • MAY 2021 - AUGUST 2021

- Designed and led development of an internal web scraping tool with functionality to annotate and extract features from HTML web pages for the Alexa AI Web Information team; built and deployed with Flask, DynamoDB, and AWS Lambda
- Improved information extraction and data collection speeds over other tools by up to 10 times

**Software Developer • PatchRx Technologies**

VIRTUAL • DECEMBER 2020 - DECEMBER 2021

- Implemented data filtering and sorting functionalities and redesigned the web application's SMS notification system
- Built mobile app onboarding process with biometric authentication and engineered a virtual assistant messaging interface

**15-112 Teaching Assistant • CMU School of Computer Science**

PITTSBURGH, PA • JANUARY 2020 - DECEMBER 2020

- Prepared for course virtualization by writing test case autograder scripts in Python and converting course notes to LaTeX
- Taught recitations of 30+ students covering fundamental programming and computer science topics in Python and Go

**Research Intern • CMU Human Computer Interaction Institute**

PITTSBURGH, PA • MARCH 2020 - AUGUST 2020

- Designed and developed free math learning software for middle school students under the CMU Open Learning Initiative
- Converted intelligent tutoring interfaces from Adobe Flash to HTML, CSS, and JavaScript

**Undergraduate Research Fellow • UNT HILT Research Lab**

DENTON, TX • NOVEMBER 2017 - MARCH 2019

- Built a novel information extraction system using Python Machine Learning and Natural Language Processing to extract keywords from 1200+ Amazon product descriptions

## PROJECTS AND PUBLICATIONS

**Freelance Web Development**

PRESENT

- Designed and developed several websites for CMU organizations, individuals, and course projects with Adobe XD, Bootstrap, and React. Deployed through GitHub pages and showcased at [www.phihenrynguyen.com/projects](http://www.phihenrynguyen.com/projects)

**Extracting Learnable Concepts from Natural-Language Descriptions**

FEBRUARY 2019

FIRST AUTHOR • SUBMITTED TO NAAACL-HLT 2019 CONFERENCE

- Exploration into a novel approach to extract words from natural-language descriptions of objects that are both relevant to the specified object and capable of being grounded using visual features using Stanford Core NLP and SciKit Learn

## ADDITIONAL INFORMATION

**Programming Languages:** Python • JavaScript • HTML/CSS • Java • C • C++ • Ruby • SQL • Go • COBOL

**Technical Tools:** Amazon Web Services • Git • React • Flask • Ruby on Rails • Scikit Learn • Adobe XD • MongoDB • Firebase

**Awards:** Dean's List, High Honors (CMU) • President's List (UNT) • Capital One Software Engineering Summiteer

**Activities:** Asian Students Association Vice President of Events & Webmaster • Lunar Gala Web Developer •

180 Degrees Consulting Project Lead & Webmaster • Sigma Phi Epsilon Webmaster & Professional Development Chair