

# Phi Henry Nguyen

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## EDUCATION

**Carnegie Mellon University** • GPA: 3.82/4.0

**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 Engineer • Schonfeld Strategic Advisors**

NEW YORK, NY • JULY 2023 - NOVEMBER 2023

- Developed key features to improve performance and UI/UX of the firm's Risk Portal in React and Spring Boot, including a data-obfuscation mode to enhance security and privacy during demos, server-driven AG Grid configurations to optimize data rendering and scalability, and time series risk factor charts to provide data analysis of performance and risk exposure

**Software Engineering Intern • Schonfeld Strategic Advisors**

NEW YORK, NY • JUNE 2022 - AUGUST 2022

- Worked directly with the Risk Technology Applications team to develop interactive machine learning models and time series data visualization tools for 100+ portfolio managers and analysts using Javascript, React, Python, Java, and kdb+
- Refactored React Redux store to improve portal loading speed and reduce unnecessary component rendering by over 90%
- Built APIX.XL APIs to handle bulk requests and significantly reduce number of kdb+ queries needed to build Excel models

**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**

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

## 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 • Typescript/Javascript • Java • HTML/CSS • C • C++ • Ruby • SQL • Go • COBOL

**Technical Tools:** React • Spring Boot • Highcharts • AG Grid • Flask • Django • Ruby on Rails • Amazon Web Services • Git

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

**Activities:** Asian Students Association Vice President, Booth Chair, & Webmaster • Lunar Gala Web Developer •

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