

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 UI/UX of the firm's Risk Portal in React and Spring Boot, including a data-obfuscation mode to enable privacy during demos and server-driven configurations to optimize data rendering and scalability
- Built time series risk factor charts providing performance and exposure analysis through multiple levels of data granularity
- Implemented robust error handling in Python risk decomposition API for enhanced server reliability and usability

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

Extracting Learnable Concepts from Natural-Language Descriptions

FEBRUARY 2019

FIRST AUTHOR • SUBMITTED TO NAACL-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