

Phi Henry Nguyen

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PROFESSIONAL EXPERIENCE

Software Engineer • Lucera Financial Infrastructures

NEW YORK, NY • MARCH 2024 - PRESENT

- Building full stack applications for LumeMarkets trading systems and the FMX Futures Exchange, launching summer 2024
- Developing core engineering projects such as client-focused customizable UI theming and core React component libraries

Software Engineer • Schonfeld Strategic Advisors

NEW YORK, NY • JULY 2023 - DECEMBER 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

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 over 10 times through extensive testing

Software Developer • PatchRx

VIRTUAL • DECEMBER 2020 - DECEMBER 2021

- Redesigned client-side data management and the SMS notification system for patient prescription adherence software
- Built mobile app onboarding process with biometric authentication and engineered a virtual assistant messaging interface

OTHER EXPERIENCE

17-437 Teaching Assistant • CMU School of Computer Science

PITTSBURGH, PA • JANUARY 2023 - MAY 2023

- Hosted office hours for topics in Django web application development and mentored course capstone project groups

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

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

EDUCATION

Carnegie Mellon University • GPA: 3.82

PITTSBURGH, PA • 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

Activities: Booth Chair • Asian Students Association Vice President • Sigma Phi Epsilon Fraternity • 180 Degrees Consulting

SKILLS

Programming Languages: Python • TypeScript/Javascript • Java • SQL • HTML/CSS • C • C++ • Ruby • Go • COBOL

Frontend Technologies: React • Highcharts • AG Grid • TanStack • Zustand • Redux • Stitches • Storybook • WebSocket

Backend Technologies: Spring Boot/WebFlux • Flask • Django • MongoDB • Ruby on Rails • Amazon Web Services • TeamCity