

Phi Henry Nguyen

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EDUCATION

Carnegie Mellon University • GPA: 3.7/4.0

AUGUST 2019 - MAY 2023

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

Relevant Coursework: Software Construction, Design, & Concurrency • Computer Systems • Functional Programming •

Principles of Imperative Computation • Application Design & Development • Database Development • Interaction Design

Texas Academy of Mathematics and Science • GPA: 4.0/4.0

AUGUST 2017 - MAY 2019

Early college entrance program at the University of North Texas (UNT). Graduated with 2 years of college credit.

Relevant Coursework: Data Structures • Object-Oriented Programming for Business • Web-Based Information Technologies

WORK EXPERIENCE

Full Stack Software Engineering Intern • Cisco Meraki

SAN FRANCISCO, CA • AUGUST 2021 - PRESENT

- Developing a user experience in Meraki Dashboard to enable data collection of cameras for video object detection training

Software Developer • PatchRx Technologies

VIRTUAL • DECEMBER 2020 - PRESENT

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

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 DynamoDB, AWS Lambda, and others
- Improved information extraction and data collection speeds over other tools by up to 10 times

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

Boba Addict Web Application

MARCH 2020

- Developed a full stack web application with Bootstrap and Yelp's Fusion API to help users find and map nearby Boba Tea shops using HTML5 Geotagging and other filters. Also includes an optimized general restaurant search function

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 • JavaScript • HTML/CSS • Java • C • C++ • Ruby • SQL • Go • COBOL

Technical Tools: Amazon Web Services • Git • React • Flask • Ruby on Rails • Bootstrap • 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 Membership & Webmaster • Lunar Gala Web Developer •

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