

# 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

**Software Development Engineer Intern** • Amazon

SEATTLE, WA • MAY 2021 - AUGUST 2021

- Designed and led development of an internal web scraping tool with functionality to extract features from HTML web pages for the Alexa AI Web Information team; built and deployed with several AWS tools and services
- Improved information extraction speed over other tools by up to 10 times

**Software Developer** • PatchRx Technologies

VIRTUAL • DECEMBER 2020 - MAY 2021

- Worked directly with lead engineers to develop new features for the consumer mobile application with React Native
- Built application onboarding process with biometric authentication and implemented 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

- Strengthened technical skills through the iSpy project, a game-based approach to multimodal robot learning
- 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)

**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