

# Phi Henry Nguyen

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## EDUCATION

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

**AUGUST 2019 - MAY 2023**

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

**Relevant Coursework:** Principles of Imperative Computation, Principles of Software Construction, Database Design & Development, Business Systems Programming with COBOL, Information & Grid Design, Interaction Design Overview

**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

## EXPERIENCE

**Software Engineering Summiteer** • Capital One

VIRTUAL • AUGUST 2020

- One of 50 out of 450+ applicants selected to attend Capital One's 2020 Software Engineering Summit
- Attended several workshops and learned software development tools such as Android Studio, Firebase, and Azure

**15-112 Teaching Assistant** • CMU School of Computer Science

PITTSBURGH, PA • JANUARY 2020 - PRESENT

- Prepare for course virtualization by writing test case autograder scripts in Python and converting course notes to LaTeX
- Teach recitations of 30+ students covering fundamental programming and computer science topics in Python and Go
- Mentor students through knowledge gaps and conceptual misunderstandings at lab sessions and office hours

**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

**Student Consultant** • 180 Degrees Consulting

PITTSBURGH, PA • DECEMBER 2019 - PRESENT

- Currently working with the Rukmini Foundation, a non-profit organization dedicated to supporting education in Nepal
- Use Salesforce and Tableau to create standardized frameworks and storage structure for data flow and analysis

**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 • SQL • C • C++ • Go • COBOL

**Technical Tools:** Bootstrap • React • Adobe XD • Git • Firebase • Android • Microsoft Azure • LaTeX • SciKit Learn

**Awards:** Dean's List, High Honors (CMU) • President's List (UNT)

**Activities:** Asian Students Association Public Relations Head/Webmaster • Lunar Gala Web Developer • Sigma Phi Epsilon