

# TIFFANY NGUYEN

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## PROFESSIONAL EXPERIENCE

### Undergraduate Researcher

#### Fisher-Wellman Lab, East Carolina Heart Institute

Aug 2018 – Ongoing    Greenville, NC

- Developed and published a data analysis toolkit on the Python Package Index to automate the data analysis process of our assay platform, reducing analysis time from one assay in two hours to numerous in a few minutes.

### Undergraduate Researcher

#### ECU Department of Computer Science

July 2017 – May 2018    Greenville, NC

- Divided code solutions into varying levels of granularity in order to encourage CS students of different experience levels to learn and progress in their studies.

### Banner 9 Task Force Student Technology Consultant

#### ECU ITCS

Aug 2017 – Feb 2018    Greenville, NC

- Provided feedback on proposed changes for Banner and PiratePort, the university's technology centers for students, in order to increase user-friendliness of the application and accessibility to university resources.

### Mobile Application Development Intern

#### MATCH Wellness

Oct 2016 – Oct 2017    Greenville, NC

- Developed the entirety of the iOS and Android mobile applications used by students of MATCH Wellness which are currently available on the Google Play and Apple App Stores.
- Developed an API for the MATCH Wellness system that makes user data accessible by the mobile app.

## PROJECTS

### HealthHelp

#### PearlHacks at UNC Chapel Hill

Feb '19    Chapel Hill, NC

- Led a team of four to develop an AI chatbot using Amazon Lex and the Google Translate API that helps immigrant populations overcome barriers in access to healthcare and won the prize for Best Health Related Hack at PearlHacks.

### Dot Dot Dash, Dinder

#### DiamondHacks at NC State University

Apr '16, Sep '17    Raleigh, NC

- Led a team in developing an Android application called Dinder that pairs up solo-diners in the same area and won the prize for Most Creative Hack at DiamondHacks.
- Constructed an app called Dot Dot Dash using Android Studio and Google's speech-to-text API that translates speech to Morse code vibrations for use by hearing and visually impaired people.

## EDUCATION

### B.S. in Computer Science, Minor in Neuroscience

#### East Carolina University

Aug '16 – May '20    Greenville, NC

### Yonsei International Summer School

#### Yonsei University

June '18 – Aug '18    Seoul, South Korea

## CERTIFICATIONS

### Blockchain for Business - An Introduction to Hyperledger Technologies

#### edX.com

Oct '18

### Up and Running with Python

#### Lynda.com

Dec '16

## STRENGTHS

Proficient in: Java Python C++

Swift Linux MacOS X

Some experience with: C HTML

CSS JavaScript MongoDB XML

PHP SQL R NodeJS

## HONORS & AWARDS

EC Scholars and ECU Honors College  
2016 - 2020

ECU Computer Science Service  
Award  
2018

CRA-W Research Scholar  
2017

Phi Kappa Phi Outstanding First-Year  
Student  
2016-2017

## LANGUAGES

English  
Spanish  
Korean



## LEADERSHIP EXPERIENCE

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### Blockchain ECU

#### Founder, President

📅 Aug '18 – Ongoing

📍 Greenville, NC

- Started a student organization at ECU to foster a community of students interested in learning more about blockchain development and connected members with the Innovation Design Lab to work on a blockchain project with a supplier for Walmart.

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### ECU Spark

#### Founder, Director

📅 Jun '17 – Ongoing

📍 Greenville, NC

- Started ECU's first annual interdisciplinary hackathon to bring together local companies, entrepreneurs, students, professionals, and people interested in technology and innovation.
- Coordinates all aspects of the event (which will be happening for the second time this Spring) including finances, the itinerary for the event, sponsor relations, marketing, and other event logistics.

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### Women in Computer Science

#### Founder, President

📅 Jan '17 – Ongoing

📍 Greenville, NC

- Started WiCS at ECU in order to foster a diverse community in the tech field and combat the fact that women made up less than 10% of our department during my freshman year.
- Created a day for middle school girls in Greenville to visit ECU's campus and learn about sisterhood and technology that will continue in years to come.
- Organized women in CS at ECU to serve as mentors to students in the Girls Who Code Club at Pitt County Schools Early College High School.

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### Association for Computing Machinery, ECU Chapter

#### Chair

📅 Oct '16 – Ongoing

📍 Greenville, NC

- Increased organization activity since becoming chair by hosting meetings and workshops every other week as opposed to one meeting per semester like in years before.
- Organized group trips to university hackathons within the state in which our members won prizes including PearlHacks and HackNC.
- Hosted professional development workshops for members on topics such as web and mobile app development, interview prep, hackathon prep, and more in order to prepare students for their careers.

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### Dean's Student Leadership Advisory Council

#### Co-President

📅 Jan '17 – Aug '18

📍 Greenville, NC

- Worked closely with the assistant dean of the College of Engineering and Technology to advise the dean on various topics impacting students and their educational and social experiences.
- Hosted a STEM program called Technoquest in Eastern NC in Fall 2017 which brought 165 Girl Scouts to ECU's campus for a day of educational workshops.

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### Google igniteCS

#### Mentor

📅 Oct '16 – Jun '17

📍 Greenville, NC

- Used funds provided by Google to develop and implement educational computer science programs for high school students in Greenville.

## RELEVANT COURSES

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Algorithmic Problem Solving

**CSCI 1010**

Algorithms and Data Structures

**CSCI 2530**

Automata and Formal Languages

**CSCI 4602**

Big Data & Analytics in Society

**HNRS 2116**

Computer Networks

**CSCI 3010**

Cryptography and Information Systems

**CSCI 4905 (In Progress)**

Data Abstraction and Object-Oriented Data Structures

**CSCI 2540**

Database Management Systems

**CSCI 3700**

Design and Analysis of Algorithms

**CSCI 3650 (In Progress)**

Digital Electronics

**CSCI 2410**

Discrete Structures I

**CSCI 2400**

Discrete Structures II

**CSCI 2405**

Entrepreneurship Essentials

**MGMT 3500 (In Progress)**

Machine Learning

**CSCI 4120**

Natural Language Processing

**CSCI 4140**

Operating Systems

**CSCI 3000**

Organization of Programming Languages

**CSCI 3675**