

# TIFFANY NGUYEN

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## PROFESSIONAL EXPERIENCE

### Undergraduate Researcher

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

Aug 2018 – Ongoing    Greenville, NC

- Developed a comprehensive data analysis toolkit (which is published on the Python Package Index and BioChemJ) to automate the data analysis process of our assay platforms.

### Technology Development Intern, Product Owner

#### Optum

June 2019 – Aug 2019    Raleigh, NC

- Developed a FHIR compliant application from the ground up using Flask in Python, React, and a MySQL database.
- Hosted the application (containerized with Docker) on OpenShift and deployed through Jenkins.
- Led the development team in creating the product vision and developing new feature ideas as Product Owner. The application was then presented to a VP for funding and support for production-level development.

### Blockchain Project Lead

#### ECU Innovation Design Lab

Feb 2019 – Apr 2019    Greenville, NC

- Led a team of four interns in developing a blockchain framework that tracks the supply chain of L&M, a produce supplier for Walmart.

### 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

## PUBLICATIONS

Goldberg, E., Buddo, K., McLaughlin, K., [et al, including **Nguyen, T.**] (2019) Tissue-Specific Characterization of Mitochondrial Branched-Chain Keto Acid Oxidation Using a Multiplexed Assay Platform, *Biochemical Journal* 476(9)

## CERTIFICATIONS

Blockchain for Business - An Introduction to Hyperledger Technologies

edX.com

## SKILLS

Proficient in: Python, Java, Swift, HTML, CSS

Some experience with: Docker, FHIR, React, OpenShift (Kubernetes), Jenkins, C++, C, JavaScript, SQL, Node.js, AWS, Android Studio

## HONORS & AWARDS

 **Google Women Techmakers Scholar**  
2019


Awarded to 20 students in North America who exemplify leadership and passion for increasing the involvement of women in tech.

 **Lucille Moore Award**  
2018-2019


Awarded to one student leader in ECU's Computer Science Department.

 **CRA-W Research Scholar**  
2017

Awarded to students interested in computing research to allow them to attend the Grace Hopper Conference.

 **Phi Kappa Phi Outstanding First-Year Student**  
2016-2017

Awarded to one exemplary first-year student at East Carolina University.

 **EC Scholars and ECU Honors College**  
2016 - 2020

ECU's most prestigious merit scholarship, awarded to 20 students each year.

## LEADERSHIP EXPERIENCE

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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 third 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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### Blockchain ECU

#### Founder, President

📅 Aug '18 – May '19

📍 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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### 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

### Data Abstraction and Object-Oriented Data Structures

CSCI 2540

### Database Management Systems

CSCI 3700

### Design and Analysis of Algorithm

CSCI 3650

### Digital Electronics

CSCI 2410

### Discrete Structures I

CSCI 2400

### Discrete Structures II

CSCI 2405

### Entrepreneurship Essentials

MGMT 3500

### Machine Learning

CSCI 4120

### Natural Language Processing

CSCI 4140

### Operating Systems

CSCI 3000

### Organization of Programming Languages

CSCI 3675

### Software Engineering I

CSCI 3030