Tatyana Zhakia Matthews

2541 Richard Rozzelle Drive
Charlotte, North Carolina 28214

C: 704-737-4340   matthews.tatyana17@gmail.com
https://linkedin.com/in/tatyana-matthews/

OBJECTIVE

Recent computer science graduate seeking opportunities in web development, full-stack web development, front-end development (user interface (UI), web related), software engineering, or software development where collegiate and internship experience can make a meaningful contribution.

EDUCATION

Elizabeth City State University (*May 2017*)   Elizabeth City, North Carolina
Bachelor of Science, Computer Science
GPA: 3.83; *Summa Cum Laude*

SKILLS

C++	Scrum Methodology	Macintosh Operating System
HTML	Git Version Control System	Windows Operating System
CSS	Microsoft PowerPoint	Linux Operating System
Python	Microsoft Word	Adobe Photoshop
Bootstrap	Microsoft Excel	Adobe Dreamweaver
Wireframing		

AWARDS, HONORS, & SCHOLARSHIPS

Apple Inc. HBCU Scholars Scholarship	2016-2017
Apple Inc. HBCU Scholars Ambassador	2016-2017
Center of Excellence in Remote Sensing Education and Research Scholarship	2013-2016

INTERNSHIP & RESEARCH EXPERIENCE

Texas Advanced Computing Center, Research Assistant   **Summer 2017 - Present**
Austin, Texas // Mentor: Ritu Arora
- Designing wireframes for web-enabled Interactive Parallelization Tool (IPT)
- Developing IPT web application in python widget powered notebook utilizing python and HTML
- Introducing a web environment that joins web interface with high performance computing using Docker

Elizabeth City State University, Research Assistant   **Spring 2017**
Elizabeth City, North Carolina // Mentor: Jeff Wood
- Enhanced Science Gateway Community Institute Workforce Development site using WordPress widgets to provide graphical and interactive components
- Created and built the first responsive team website with Bootstrap, HTML, and CSS
- Presented site enhancements to students and faculty at the Association of Computer/Information Sciences and Engineering Departments at Minority Institutions (ADMI) Conference in Virginia

Apple Inc., Software Engineering Intern   **Summer 2016**
Cupertino, California // Manager: Hong Zhu
- Programmed interactive web features in JavaScript using Material UI
- Lessened user confusion by programming data relationships between JSON objects
- Created a Keynote presentation and presented web application enhancements to manager and team members

Software Engineering, <u>Student Team Lead</u>   **Fall 2016**
Elizabeth City, North Carolina
- United, as product owner, a team of four students to create a Django web application that enabled students to file dormitory maintenance issues online
- Created user stories
- Collaborated with users and team to define product features
- Facilitated daily team scrum meetings
- Built wireframes incorporating user requirements

Indiana University Bloomington, <u>Research Assistant</u>   **Summer 2015**
Bloomington, Indiana // Mentor: Dr. Xiofeng Wang
- Investigated recent vulnerabilities and exposures to Android System using the Common Vulnerabilities and Exposures database
- Developed a malicious attack for Android System using Apache Cordova
- Presented findings for Android System security risks and vulnerabilities to students, faculty, and researchers at the ADMI Conference, ECSU Research Week, and Indiana University

Elizabeth City State University, <u>Research Assistant</u>   **Spring 2015**
Elizabeth City, North Carolina // Mentor: Edward Swindell
- Examined use of Pix4D and DJI Phantom 2 Vision+ for producing elevation datasets practical for remote sensing archaeological sites
- Collected site data, environmental conditions, team challenges, and technological limitations for future research
- Chronicled excavation site findings with photographs

Indiana University Bloomington, <u>Research Assistant</u>   **Summer 2014**
Bloomington, Indiana // Mentor: Scott McCaulay
- Explored how Apache Big Data Stack can be used and applied to solve challenges pertaining to Big Data
- Installed Apache HBase utilizing Chef via Linux command line
- Presented relationship between Apache software stack and Big Data to students and faculty at the National Association of African-American Honors Programs Conference in Mississippi

Elizabeth City State University, <u>Research Assistant</u>   **Spring 2014**
Elizabeth City, North Carolina // Mentors: Justin Deloatch, Je'aime Powell
- Investigated HUBzero elements for use in scientific collaboration, education, and research
- Created a hub using HUBzero to store river quality data to its database component
- Tested HUBzero as a platform for storing and manipulating data for future river research teams

PUBLICATIONS
Holness, C., Satchell, K., Matthews, T., Remote Sensing Archaeological Sites through Unmanned Aerial Vehicle (UAV) Imaging, IEEE-Geoscience and Remote Sensing Society IGARSS Conference, Beijing, China, July 2016

AFFILIATIONS & MEMBERSHIPS
Pi-Byte Mathematics & Computer Science Club Secretary   2016-2017
IEEE-Geoscience & Remote Sensing Society (GRSS) President of Eastern North Carolina Chapter   2015-2016
#03191
IEEE-GRSS Vice President of Eastern North Carolina   2013-2015
Chapter #03191