

Samantha Salgado

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EDUCATION

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Expected Graduation: May 2021

Bachelor of Science in Computer Science & Mathematics & Minor in Russian GPA: 3.5

JOHNSTON MIDDLE COLLEGE HIGH SCHOOL

Graduated: May 2018

High School Diploma and Associate of Science GPA: 3.8

TECHNICAL SKILLS

- Fluent in **Java, Python, JavaScript, HTML, CSS, C**
- Proficient **C#, C++, SQL, MIPS**
- **Technologies:** Git, AWS, Azure, MongoDB, PyTorch, TensorFlow

EXPERIENCE

NC STATE LAB OF ANALYTICAL SCIENCE – Raleigh, NC

Jan 2020 – Present

Machine Learning Research Assistant

- Used Python and Google CoLab to analyze datasets and train models of a convolutional neural network for classification
- Researched and developed a strong foundation for statistical concepts to continue improving machine learning models for the election prediction project

DEPARTMENT OF DEFENSE –Fort Meade, MD

Aug 2019 – Dec 2019

Software Engineer

- Worked on a team of software engineers to develop an application using MEAN stack and AWS
- Wrote automation scripts in Python for completing manual tasks more efficiently
- Participated in red team exercises to test vulnerabilities in my teams application

UNC COMPUTER SCIENCE DEPARTMENT – Chapel Hill, NC

Jun 2019 – Aug 2019

Software Engineer

- Wrote C# scripts for an augmented reality application to build a virtual assistant tool. Implemented OCR and speech and response capabilities
- Used Unity and vuforia to write the virtual assistant application and deploy it on the Hololens

FIDELITY INVESTMENTS – Durham, NC

May 2019 – Aug 2019

Systems Engineering Intern

- Designed an appealing interface using Bootstrap and Angular to input data and streamline the process of updating information to the company's server
- Utilization of PuTTY and WinSCP to remotely access servers and transfer relevant files
- Training and experience with batch processing, enterprise infrastructure, networking, and server administration

UNC PSYCHOLOGY DEPARTMENT – Chapel Hill, NC

Jan 2019 – May 2019

Software Engineer

- Develop an application that assists people with retinal dysfunction to be able to read their computer easier. Languages used: HTML, JavaScript, CSS.
- Researched and implemented arrow key navigation of text documents and data saving capabilities of the application to better serve users.
- Collaborate with other programmers and client to revise and construct the application as desired

PERSONAL PROJECTS

- Free Lance Development and Online Courses
 - Developed a modern website for local business to implement updated interface and improve user experience
 - Completed: R Fundamentals, Python for Data Science, Cyber Security fundamentals, Hacking and Patching, Algorithms, Data Structures, Linux.

EXTRACURRICULAR ACTIVITIES

UNC CYBER SECURITY CLUB

Aug 2018 – Present

Treasurer & Team Member

- Manage finances with a private bank to pay for software licenses for teaching and hacking competitions. Present to the student government board to ask for funds for the club.
- Host weekly meetings to teach students about cyber security. Beginning of the semester starts with fundamentals and then we teach students how to use online websites to practice the skills we learn.

UNDERGRADUATE RESEARCH

Mar 2019 – Aug 2019

- Finding and exploiting vulnerabilities such as HTML injection and dictionary attacks on an online quiz system
- Exploitation of pdf analysis vulnerabilities using opaque predicates to upload malicious code and bypass security checks

SKILLS & ACCOMPLISHMENTS

- Russian language: Advanced intermediate at speaking, writing, and reading
- Current **Top Secret Clearance**