ANDER M. U. MORAN

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EDUCATION

Texas A&M University, College Station TX — Expected May 2019
Bachelor of Science, Computer Science
Minor, Cybersecurity

The John Cooper School, The Woodlands TX — May 2015
- Overall SAT Score: 2190/2400
- SAT Subject Test: Mathematics 2 – 800/800

ACTIVITIES

Varsity Tennis Captain — Spring 2014, 2015
- Lead team practices
- Organized team in tournaments

TAMU cybersecurity club — Fall 2016
- Learned about webpage security

WORK EXPERIENCE

Tutor, The Woodlands TX and College Station TX — Fall 2011 – Present
- Physics
- Computer Science
- British Literature
- SAT Writing and Math

Intern at Providence Hospital Of North Houston Llc, Houston TX — Summer 2016
- Set up the network of computers and operating systems
- Assisted employees with computers and technical issues

Intern at i.e.Smart Systems, Houston TX — Summer 2016
- Configured audio/visual equipment and developed software for such systems

AWARDS/HONORS

National Hispanic Scholar — Spring 2015
- Awarded by the College Board to academically exceptional high-school Hispanic/Latino students

National Society of Collegiate Scholars, *Member* — Fall 2015 – Present
- Recognizes outstanding achievement among first and second year college students

Phi Eta Sigma, *Member* — Spring 2016 – Present
- National honor society for first-year college students

Sigma Alpha Lambda, *Member* — Spring 2016 - Present
- National Leadership and Honors Society

Sigma Alpha Pi, *Member* — Spring 2016 - Present
- National Society of Leadership and Success

CERTIFICATES

Codebashing by Checkmarx, iOS — Spring 2018
- Learned good security practices for iOS app development

Codebashing by Checkmarx, C/C++ — Spring 2018
- Learned good security practices for C/C++ programming

Secure Code Warrior, iOS (Objective-C) — Spring 2018
- Interactive portal allowed me to work on real world security problems

SKILLS

Programming Languages
- C++, Objective-C, C, Shell, Python, Java, Basic HTML, x86 assembly
- Data structures and algorithm analysis
- Artificial intelligence

Computer Knowledge
- Adobe Photoshop, Adobe Illustrator, Adobe After Effects, Adobe Muse
- Understanding of OS X, Windows, and Linux

Ander Moran

iOS Reverse Engineering   Spring 2016 – Present
- Understand the reverse engineering progress regarding iOS applications
  - Reverse engineered dozens of iOS applications
  - Reverse engineered iOS SpringBoard

PERSONAL PROJECTS
Mobile Phone Applications (iOS)   Summer 2014 - Present
- Simple Media: an application for legally blind users that facilitates reading on-screen
- Piqqer: an application which is programmed to randomly select an item from a list
- Calculator: an application with an interactive calculator
- Helped developer (@cokepokes) of an iOS jailbreak tweak with 300,000 users

Xbox Live Gamertag   Fall 2015
- Written in Python
- Scraped webpages to see if any given gamertag was available
- Ran with a list of the 10,000 most common words to see if any were available to use

Nightmare   Fall 2016 - Spring 2017
- An iOS "tweak" dynamically injected into Snapchat at runtime
- Created an in-depth dark mode for the app
- Had ~300 users before Snapchat buffed their security within their iOS app
  - Learned to deal with consumers from all over the world
    - Users from South America, Europe, Asia, Middle East

Brainf***++ & Brainf*** Interpreter   Spring 2017
- Built a Brainf***(++) interpreter for Unix based operating systems
  - Debugger in process
- In the process of developing the Brainf***++ language (based off the esoteric language Brainf***)

Class Checker for Texas A&M University   Spring 2017
- Made for macOS using Xcode and Objective-C
- Alerts the user when there is an opening in a class that is full
- Scrapes the Texas A&M course scheduler website for information regarding classes
  - Reverse engineered the webpage to find data source

Objective-C Code Injection in MacOS Sierra   Summer 2017
- Learned how to create a dylib and inject it into a running process
- Swizzled methods with the help of Objective-C runtime

Detective-C, Library for Objective-C runtime inspection   Fall 2017
- Dumps information (properties, instance variables, methods) about any given class when only provided with a class header file or an executable referencing said class
- Useful when injecting a dynamic library into a process and need more information

Steganography   Fall 2017
- Written in Python
- Hiding data in plain site
  - Hides sensitive strings within the data of an image through modifying the last two bits of selected bytes

CURRENT INTERESTS
Software Engineering
- Mobile (iOS)
- Desktop (macOS)
- Web

Cybersecurity
- Low level operating system security
- Fuzzing
- Binary exploitation
- OS memory protection
- Reverse engineering
- iOS security

Machine learning
- General