

ANDER M. U. MORAN

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EDUCATION

- Texas A&M University**, College Station TX Expected May 2019
Bachelor of Science, Mathematics and Computer Science
 - GPA: 3.67/4.00
- The John Cooper School**, The Woodlands TX May 2015
 - GPA: 3.50/4.00
 - 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 2017 - Present
 - National Leadership and Honors Society
- Sigma Alpha Pi**, *Member* Spring 2017 - Present
 - National Society of Leadership and Success

SKILLS

- Programming Languages**
 - Basic HTML, Java, C++, Python, Shell, AppleScript, PowerShell, Swift, Haskell, Objective-C, C, Assembly basics, Brainf***
 - Data structures and algorithm analysis
- Computer Knowledge**
 - Adobe Photoshop, Adobe Illustrator, Adobe After Effects, Adobe Muse
 - Understanding of OS X and Windows
 - Replacing RAM and hard drives
- iOS Reverse Engineering** Spring 2016 – Present
 - Understand the reverse engineering progress regarding iOS applications
 - Reverse engineered dozens of iOS applications
 - Reverse engineered iOS SpringBoard
- Micro controllers** Spring 2016 – Present

- Arduino
- Raspberry Pi

PROJECTS ([andermoran.github.io](https://github.com/andermoran))

Mobile Phone Applications (iOS)

Summer 2014 - Present

- Simple Media: an application for legally blind users that facilitates reading on-screen
- Piqqr: 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 (private)

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 (github.com/andermoran/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** (github.com/andermoran/brainfuckinterpreter)

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

8 bit load-store processor

Spring 2017

- Strengthened understanding of registers, RAM, and ALU
- Could add two two-by-two matrices and output the result in the RAM
- Created custom assembly language suited for the processor architecture

Objective-C Code Injection in MacOS Sierra

Summer 2017

(github.com/andermoran/Objective-C-code-injection-example-in-macOS-Sierra)

- 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

CURRENT INTERESTS

Cybersecurity

- Low level operating system security
- Fuzzing
- Binary exploitation

Operating Systems

- Drivers
- Kernel

User Software Development

- I am more comfortable writing command line programs and want to expand my knowledge on creating GUI based software