# Education

**University of Texas at Austin Spring 2017 Completion**

Full Stack Developer Program

## University of Texas at Austin Graduated Spring 2016

Bachelor of Science and Arts in Computer Science

Information Security Professional Certificate awarded by NSA

# Practical Experience

## Data Management Spring 2015

* Programmed an Oracle APEX application. Made it to in-class semi-finals competition for use by JJ Pickle Research Center
* Database design theory including topics such as normalization, concurrency and optimization
* Experience with SQL, UML

## Computer Networks Fall 2015

* Gained essential socket programming fundamentals leading to the development of a request/responder system using the UDP protocol written in C
* Designed and implemented communication between client/server through TCP protocol written in C

**Network Security**  **Fall 2015**

* Wrote exploits in C and javascript to gain root access using techniques such as buffer overflows, SQL injection, cross site forgery requests and cross site scripting attacks.
* Public-key and symmetric key encryption, hash functions
* Fundamentals of Web Security model, web authentication and session management.

**Operating Systems Spring 2015**

* Advanced an existing mini shell with built-in commands and wrote a simple parser for the command line
* Developed a solid foundation of how threads, scheduling, synchronization and interrupts work
* Enhanced a toy OS to include capabilities virtual memory and file management capabilities

**Side Projects**

\* Python app that notifies if someone is currently in jail or recently been arrested. Uses for employers and coaches to find problematic employees and/or athletes whom much is invested in. Automated via BASH scripts and tied in with the Twilio API to notify users via text messages. Working on GUI interface.

\* iOS app allowing UT students to find rsvp and share events using CoreData in other colleges in the University