

EDUCATION

The University of Texas at Austin

Grad Date: May 2018

- Bachelor of Science in Computer Science
- Certificate of Applied Statistical Modeling
- **Relevant Coursework:** Data Structures, Comp Arch, Comp Intel, OS, Matrices, Algorithms, OOP, Networks, Compilers, Data Management, AI (Fall 2017), Virtualization (Fall 2017)

TECHNICAL SKILLS

- Experienced with Java, Python, Flask
- Exposure to Matlab, C, C++, Android, R, HTML5, CSS3, JavaScript, Django, NodeJS

WORK EXPERIENCE

Symmetric, *Software Engineer*

May 2016 – Present

- SecureBlox – Security platform built on Linux containers that enforces data isolation
- MySQL Proxy – Rewrite queries to use dynamically allocated databases based on data origin
- Resource Manager – Enables multi-host container networking and manages container load balancing and onboarding of new servers
- Wrote unit tests for code base and integrated them into a custom development pipeline

Spark Security Research Lab @ UT Austin, *Research Assistant*

June 2015 – Present

- Focusing on cloud software and architecture security
- Built **DATS Editor** – An online collaborative code editor with a terminal (Django, PostgreSQL)
- Used in UT class for coding projects and practice

PERSONAL PROJECTS

WorldView – Made an interactive data visualization of sentiment for different topics on twitter

Woodstocks – Built a web app that uses historical stock prices to generate music

Flappy Bird AI – Used neural networks and genetic algorithms to create a flappy bird AI

Typing Game – Developed a web app which tests the user's typing skills and displays pertinent statistics

SMS Spammer – Created an Android app that can send multiple texts to another person

AWARDS

HackUTD Funimation Sponsor Prize

March 2016

- **WeabooDatLife** – A server that lets you have texting conversations with TV and movie characters
- Scraped transcript data, used it to create markov chains, and created an email server to send texts

HackTX Top 10 Finalist, *Best Use of AWS, Keep Austin Weird Award*

Sept. 2015

- **Filter.me** – A custom Instagram filter. Implemented the paper Neural Algorithm as Artistic Style
- Extracted the content of one image and applied the style of another image using a CNN
- Coded the backend to interface with the AWS GPU compute node and the front end (Flask, JS)

Athenahealth MDP Hackathon 2nd Place

July 2015

- **MobiLert** – An app that relays walking/gait information to doctors and family and alerts them about falls, especially for elderly people
- Designed and collaborated with team on Android app and front end of the website

TECHNICAL EXPERIENCE

Information and Systems Security Society, *Engineering Team*

May 2017 – Present

- Create practice problems for members and demos for presentations

Journal of Law and Technology @ Texas

May 2016 – Present

- Bluebook Automation – Creating plugins for Word that generate legal citations

Unmanned Aerial Vehicle Team @ UT Austin

2014 – 15

- Applied Computer Vision algorithms and interpreted real time video with MATLAB
- Implemented color detection and intelligent image cropping for shape detection algorithm

Mobile App Development @ UT Austin

2014 – Present

INTERESTS

Web/Mobile App Development | Security | Artificial Intelligence | DevOps | Learning Languages | Soccer