

Abbas Ally

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<https://github.com/abbasally5>

EDUCATION

The University of Texas at Austin

Grad Date: May 2018

- Bachelor of Science in Computer Science
- **Relevant Coursework:** Data Structures, Comp Arch, Computational Intelligence, OS, Matrices, Algorithms, OOP, Networks, Compilers, Data Management, AI, Virtualization, NetSec (Spring 2018), Ethical Hacking (Spring 2018), Programming Languages (Spring 2018)

TECHNICAL SKILLS

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

WORK EXPERIENCE

Symmetry Systems, 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 demos, presentations, and CTFs

Journal of Law and Technology @ Texas

May 2016 – 17

- 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