

Abbas Ally

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EDUCATION

The University of Texas at Austin

Grad Date: May 2018

- Bachelor of Science in Computer Science
- **Relevant Coursework:** Data Structures, Discrete Math, Computer Architecture, Computational Intelligence, Operating Systems, Matrices, Algorithms (Spring 2016), OOP (Spring 2016)

TECHNICAL SKILLS

Programming

- Experienced with Java, Python
- Exposure to Matlab, C, C#, Assembly, Android

Web

- Exposure to HTML5, CSS3, JavaScript, Django, Flask

WORK EXPERIENCE

Spark ECE Security Research Lab at UT Austin, Student Intern

June 2015 – Present

- Engineering a practical application of Blox research (development platform with data Partitioning containers for apps)
- Building **Blox Editor** – An online collaborative code editor with a faux terminal (Django, PostgreSQL)
- Program will be used in UT classes for projects and exams in near future

PERSONAL PROJECTS

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

- Flask, JQuery, Bootstrap

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

- Created a version of flappy bird using PyGame, AI with Python

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

- AngularJS, Bootstrap

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

AWARDS

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 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

Unmanned Aerial Vehicle Team @ UT Austin

2014 - Present

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

Association of Computer Machinery @ UT Austin

2014 - Present

- UT ACM Programming Competition #4 (3rd place)

Computer Science Club/Team, Leadership Team (Co-Captain)

2011 - 14

- Competed in ACM, ICPC, TCEA, and UIL style programming contests
- Multiple top 3 finishes in local competitions

Mobile App Development @UT Austin

2014 - Present

Robotics Team, Hardware Lead

2012 - 2014

- Programmed LEGO Mindstorms NXT, VEX Microcontroller using RobotC
- Placed in the **Top 40** at the **World Championships**

April 2013

INTERESTS

Web/Mobile Development | Security | Computer Vision | Competitive Programming | Learning Languages | Soccer