

# 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, Discrete Math, Computer Architecture, Computational Intelligence, Operating Systems (Fall 2015), Matrices (Fall 2015)

## TECHNICAL SKILLS

### Programming

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

### Web

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

## WORK EXPERIENCE

### Spark ECE Security Research Lab at UT Austin, *Student Intern*

June 2015 – Present

- Worked on practical application of Blox research (development platform with data Partitioning containers for apps)
- Built **Blox Editor** – An online collaborative code editor with a faux terminal (Django, PostgreSQL)
- Will eventually be used in UT classes for projects and exams

## PERSONAL PROJECTS

### 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*

September 2015

- **Filter.me** – A custom Instagram filter. Implemented the paper *Neural Algorithm as Artistic Style*
- Took 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

- Using MATLAB to implement Computer Vision algorithms and interpret real time video
- Worked on 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

- Competed in the FIRST Tech Challenge
- 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