



# ALEXANDRA BELLON

937-557-3144 || [alex@waitlisters.org](mailto:alex@waitlisters.org) || [alex-bellon.com](http://alex-bellon.com) || [github.com/alex-bellon](https://github.com/alex-bellon)

## EXPERIENCE

### Security Analyst Intern - Electronic Arts

Summer 2019

- Worked in **Python** to automate validating results from CASB scans. The programs conduct port scans, send GET/HEAD requests to cloud machines, export the results to a JSON file, Google Sheet and MySQL database
- Scanned **800+** cloud instances, and found **1400+** incidents

### Teaching Assistant for CS361: Intro to Security - UT Austin

2019 - present

#### present

- Create and grade security-focused assignments for **80+** students
- Lecture on various topics in security like **cryptography** and **forensics**.
- Create and run a CTF competition for the students' final exam

## SELECTED PERSONAL PROJECTS (more can be found on my GitHub and website)

### AllerGen - 1st place at TAMUHack 2019 ([github.com/Texas-Waitlisters/AllerGen](https://github.com/Texas-Waitlisters/AllerGen))

- Application that allows you to input food allergens, and then scan food barcodes to see if you are allergic to that food
- Worked in **Python** to query USDA database for ingredients, determine if user is allergic, and find common ingredients between foods

### ctf-tools ([github.com/alex-bellon/ctf-tools](https://github.com/alex-bellon/ctf-tools))

- Tools for cryptography, forensics, networking, reverse engineering, and binary problems, mostly written in **Python**
- Implementations of RSA, Luhn, One Time Pad, Diffie-Hellman, etc.

### ctf-writeups ([github.com/alex-bellon/ctf-writeups](https://github.com/alex-bellon/ctf-writeups))

- GitHub repository of writeups I have made for CTF challenges. Topics involve **cryptography**, **forensics**, binary exploitation, networking, and more.

### Scrambled: Rubik's Cube based steganography - published in 'PagedOut!' zine

- One-page paper about a steganography problem I created for UTCTF
- Published in the security-focused zine 'PagedOut!' ([pagedout.institute](http://pagedout.institute))

## EDUCATION

### The University of Texas at Austin, Class of 2021

BS in Computer Science and Mathematics, 3.67 GPA

#### Completed Courses:

Network Security & Privacy, Operating Systems, Computer Architecture, Matrices, Abstract Algebra, Number Theory

## TECHNICAL SKILLS

Most comfortable in Python, Java and C, familiar with C++, HTML, CSS and MySQL. Comfortable with Linux and UNIX, Shell (bash/zsh), Git, Vim, and command line tools

## AWARDS

### Capture the Flag

1<sup>st</sup> SunshineCTF, 3<sup>rd</sup> Angstrom CTF, 3<sup>rd</sup> AtlassianCTF ('18 and '19), 10<sup>th</sup> SwampCTF

### Texas Network Massacre

1<sup>st</sup> at Attack/Defense CTF

### National CCDC

2<sup>nd</sup> Southwest Regionals '19, blue team competition

### National CPTC

2<sup>nd</sup> New England Regionals '19, red team competition

### Hackathons

1<sup>st</sup> at TAMUhack 19, 3<sup>rd</sup> at Hacklahoma '19, top 10 at Hacklahoma '18, competed in 14 total

## LEADERSHIP

### Co-President - Information & Systems Security Society 2018 - present

- Write cybersecurity challenges for weekly Capture the Flag (CTF) competitions, mostly in the **forensics** and **cryptography** category
- Write problems for and host a yearly international CTF with **800+** teams

### Web/Tech VP - Association for Computing Machinery

2018 - present

- Implement new features and fix bugs on UT's ACM chapter website
- Host workshops to teach students how to develop their own website
- Created and hosted a series of 8-10 **introductory workshops** for freshmen with topics like Linux basics, Git/VCS, debugging, etc

### Co-Founder, Cyber Security Lead - Waitlisters

2017 - present

- Co-Founder of Waitlisters team, that competes in hackathons, competitive programming competitions, and CTF competitions

## OTHER ACTIVITIES

Q++ Member (LGTBQ+ computer science club)

2019 - present

Hispanic Association of Computer Scientists Member

2017 - present

Hook 'Em Arts Member (Performing Arts appreciation club)

2017 - present

Austin Quidditch (Club sports team)

2017 - 2019