



# ALEXANDRA BELLON

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## EDUCATION

[The University of Texas at Austin, Class of May 2021](#)

BS in Computer Science and Mathematics, 3.65 GPA

### Completed Courses:

Network Security & Privacy,  
Intro to Security, Operating  
Systems, Computer  
Architecture, Matrices,  
Calculus I-III, Discrete Math

## 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> Atlassian CTF ('18  
and '19), 10<sup>th</sup> Swamp CTF

### Texas Network Massacre

1<sup>st</sup> at Attack/Defense CTF  
with team of 5

### National Collegiate Cyber Defense Competition

2<sup>nd</sup> at Southwest Regionals  
'19, blue team competition  
with team of 6

### Hackathons

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

## 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))

## LEADERSHIP

### Engineering Officer - 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