



ALEXANDRA BELLON

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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

- 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)

- 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)

- 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)

- 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)

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

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

Texas Network Massacre

1st at Attack/Defense CTF

National CCDC

2nd Southwest Regionals '19, blue team competition

National CPTC

2nd New England Regionals '19, red team competition

Hackathons

1st at TAMUhack 19, 3rd 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 (LGBTQ+ 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