



ALEXANDRA BELLON

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EXPERIENCE

Security Engineering Intern | Mozilla

Summer 2020

Security Analyst Intern | Electronic Arts

Summer 2019

- Worked in **Python** to automate validating results from CASB scans. The programs conduct port scans with nmap, 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

Jan - Dec 2019

- Created and graded security-focused assignments for **80+ students**
- Lectured on various topics in security like **cryptography** and **forensics**
- Created and ran a CTF competition for the students' final exam

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, Topology

TECHNICAL SKILLS

Most comfortable in Python, Java and C, familiar with C++, HTML, CSS, MySQL and Haskell.

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

Hackathons

1st at TAMUHack '19, 3rd at Hacklahoma '19, top 10 at Hacklahoma '18, competed in 14 total

UTCS Grace Hopper Conf. Scholarship (2020)

WISP DEFCON Scholarship (2019)

SELECTED PROJECTS (more on GitHub/website)

Anshel-Anshel-Goldfeld key exchange with Rubik's Cube Group

(github.com/alex-bellon/anshel-anshel-goldfeld-rubiks-cube)

- Implementation of a key exchange protocol that uses non-commutative cryptography with the Rubik's Cube Group written in **Python**

Goldreich-Goldwasser-Halevi encryption scheme (private repository)

- Implementation of a lattice-based cryptosystem written in **Python**

Drunken Bishop (github.com/alex-bellon/drunken-bishop)

- Program written in **Python** that uses the Drunken Bishop algorithm to output the ASCII art representation of an OpenSSH public key fingerprints

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)

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

LEADERSHIP

President | Information & Systems Security Society

2018 - present

- Write security challenges for Capture the Flag (CTF) competitions with **50+ participants**, as well as a yearly **international CTF with 1200+ teams**
- Lead a team of **15 officers** and serve an organization with **100+ members**

Captain | UT CCDC & CPTC Team

2019 - present

- Lead a team of 8 in red team and blue team security competitions
- Placed 2nd in 2019, 3rd in 2020 at Southwest Regionals (CCDC), 2nd in 2019 at New England Regionals '19 (CPTC)

Web/Tech VP | Association for Computing Machinery

2018 - 2020

- Implemented new features and fixed bugs on UT's ACM chapter website
- Wrote curriculum for and hosted a series of **8-10 introductory workshops** for freshmen with topics like Linux basics, Git/VCS, debugging, etc

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