



alex bellon

937-557-3144 — hi@alex-bellon.com — alex-bellon.com

EDUCATION

- 2021–Present **Ph.D., Computer Science**, *The University of California San Diego*
Advised by [Deian Stefan](#) and [Pat Pannuto](#), with a focus on the security of embedded and IoT devices and firmware. Part of [SysNet](#) and [CryptoSec](#) groups
- 2017–2021 **B.S., Computer Science**, *The University of Texas at Austin*
- 2017–2021 **B.S., Mathematics**, *The University of Texas at Austin*

PUBLICATIONS

- [1] **Alex Bellon**, Alex Yen, and Pat Pannuto. “TagAlong: A Free, Wide-Area Data-Muling Service Built on the AirTag Protocol”. The 24th International Workshop on Mobile Computing Systems and Applications (ACM HotMobile 2023). February 2023.
- [2] **Alex Bellon**, Alex Yen, and Pat Pannuto. “Demo Abstract: A Free, Wide-Area Data-Muling Service Built on the AirTag Protocol”. The 20th ACM Conference on Embedded Networked Sensor Systems (SenSys 2022). November 2022.
- [3] **Alex Bellon**, Alex Snoeren, and Deian Stefan. “Hacking for Fun and Glucose: Reverse Engineering an Insulin Pump”. SRC TECHCON 2022. September 2022.

INDUSTRY EXPERIENCE

- Summer 2020 **Security Engineering Intern**, *Mozilla*, Mountain View, CA (remote)
- Researched security issues in language-based package managers like Cargo, NPM and PyPI
 - Calculated attack possibilities for package maintainer account takeover, package code compromise, and vulnerability exploitation
 - Used research about past security incidents to fix security scoring algorithm on Mozilla’s Dependency Observatory (github.com/mozilla-services/dependency-observatory) project, used to estimate the security of NPM packages
- Summer 2019 **Security Analyst Intern**, *Electronic Arts*, Seattle, WA
- Used Python to automate checking for open ports and other attack vectors on EA’s cloud instances.
 - Scanned 800+ instances, found 1400+ security incidents sending summary of vulnerabilities to affected parties, with descriptions of the vulnerabilities and instructions to resolve them

TEACHING EXPERIENCE

- Spring 2021 **Undergraduate TA - CS349 Contemporary Issues in Computer Science**, *The University of Texas at Austin*
- Graded assignments and held office hours for a class of 40+ students
 - Shared resources and information regarding ethical and social issues in computer science
- Spring, Fall 2019 **Undergraduate TA - CS361 Introduction to Computer Security**, *The University of Texas at Austin*
- Created and graded security-focused assignments for 80+ students
 - Lectured on various topics in security including cryptography and data forensics
 - Wrote, hosted and ran a CTF competition for the students’ final exam

TECHNICAL SKILLS

Most comfortable in Python, C and Java; familiar with C++, assembly (M68K, x86), MySQL, JavaScript, HTML/CSS and Haskell.

Comfortable with Linux (Ubuntu, Arch/Manjaro) and UNIX, Shell (`bash`, `zsh`), `git`, `vim`, `emacs` (including `org-mode`), `LATEX`, Ghidra (scripting) and command line tools. Familiar with Wireshark, `gdb`, Kubernetes and Docker.