

# ian klatzco

iklatzco AT gmail DOT com

## Experience

- 2023 **Senior Application Security Engineer — Tools for Humanity née Worldcoin**
- Wrote Rust, Python, Bash.
  - Gave complex conference talk.
  - Drove vulnerability remediation.
- 2020 - 2022 **Security Consultant — Leviathan Security Group**
- Found bugs in client software on engagements ranging from 3 weeks to 3 months.
  - Embedded directly into large client security teams for staff augmentation engagements.
  - Focused on web browsers, APIs, and virtual reality.
  - Promoted from level three to level four in 15 months during COVID.
  - Internal-company award "Destroyed Project" for a high score on number of critical bugs.
- 2018 **Software Engineering Intern (Remote) — GRIMM (SMFS, Inc.)**
- Developed "Killerbeez" fuzzing framework and wrote conference submissions, documentation.
  - Simplified build system and streamlined API amidst work by other developers.
  - Made the fuzzer cross-platform, porting it to Linux and Mac.
- 2017 **Research Intern — Network Security Research Group**
- Reverse engineered 10+ cable modems from a large telecom provider.
  - Analyzed firmware and memory dumps to extract filesystems and develop exploits.
  - Found 30+ CVE-worthy vulnerabilities, enabling WiFi-range root on affected devices.

## Education

- 2015 - 2019 **Bachelor's, Computer Engineering** — University of Illinois at Urbana-Champaign 3.30 GPA
- Chancellor's Scholar — Selective (top 2% of class) honors program.
  - Undergraduate TA — Taught other students data structures and operating systems.
  - Completed research projects and self-study in security and systems coursework.

## Activities

- SIGPwny** **President (Security Club)** sigpwny.com
- Presented on UIUC student privacy at THOTCON 8, a 1,000+ attendee industry conference.
  - Presented on radical kindness in university security clubs at Cyphercon 4.
  - Developed and taught security exercises every week to a classroom of 20-40 students.
  - Founded senior group developing custom fuzzers for major operating systems and web browsers.
  - Obtained \$5,000 in funding to buy a server, install it in a datacenter, and train sysadmins.
  - Obtained \$5,000 in funding to take a group of 10 underclassmen to their first security conference.
- DDRillini** **Treasurer (Rhythm Game Club)** ddrillini.club
- Ran 3 yearly international tournaments of 130+ entrants, growing them about 10% each year.
  - Developed VR tech demo, tournament software, and features/bugfixes for open source project.
  - Managed \$5,000 budget. Maintained Linux game cabinet, teaching 20+ others maintenance skills.

## Skills

- Programming **Python, C, x86/RISC-V ASM, Lua, C++, Haskell, SystemVerilog, Ruby, HTML, JS, CSS, SQL, Rust**
- Tooling **Git, gdb, CMake, Bash, Flask, AWS, IDA / Binja / radare2 / Ghidra, Wireshark**
- Languages **English (native), Spanish (B2), Polish (B1), Japanese (B1), German (A1)**