

Coder turned white-hat hacker, a leader in making government and industry more secure.

**Work Experience:**

**Digital Service Expert, Defense Digital Service** **June 2018 - Present**

- Coordinated deployment of [Crossfeed](#) tool to help secure COVID-19 vaccine entities.
- Ongoing advisor to the Department of Defense's [Hack the Pentagon](#) bug bounty portfolio.
- Coordinated with Marine Corps Forces Cyberspace Command leadership to launch [Hack the Marine Corps](#) bug bounty challenge.

**Election Security Technical Advisor, CISA, DHS** **June 2020 - Jan 2021**

- Led development and deployment of CISA's first passive, opt-out vulnerability scanning program with [Crossfeed](#), assessing all 50 states and over 2,500 counties ahead of the 2020 election.
- Authored and contributed to guidance on [vulnerability disclosure](#) and other [public technical election security guidance](#).

**Advisory Committee Member, IT-ISAC EI-SIG** **February 2020 - Present**

- [Advising](#) six prominent election vendors on rebuilding relationships between the hacker community and elections industry, leading to the adoption of the [first vulnerability disclosure policies](#) for voting machines.

**Founder, Lightning Security** **February 2018 - Present**

- Founder of cybersecurity company [Lightning Security](#), offering cybersecurity consulting services to startups and mid-size companies.
- Clients include: [Democracy Live](#), [Earn.com](#) (acq. by Coinbase), [Step.com](#), [Civic](#), Tendii, Solidified

**Research Assistant, Stanford Internet Observatory** **January 2020 - Present**

- Coordinating social media platform outreach and research analyst for the [Virality Project](#)
- Built infrastructure for disinformation monitoring ahead of the 2020 election via the [Election Integrity Partnership](#).
- Published investigations into [Iranian interference in the 2020 U.S. election](#), [North Macedonian content farms targeting Americans with election disinformation](#), [inauthentic campaigning activity in Guinea](#), and [social media platform political advertising transparency policies](#).

**White Hat Hacker** **October 2015 - Present**

- Ranked top 100 overall on [HackerOne](#) and Cobalt bug bounty platforms.
- Reported over 350 valid vulnerabilities to organizations including Google, Yahoo, Facebook, Uber, Salesforce, and the United States Department of Defense.
- [Placed first](#) in the federal Hack the Air Force challenge out of 600 invited hackers.
- [Aiding state election officials](#) and [election vendors](#) in establishing vulnerability disclosure policies
- Participated in two Senate roundtables on coordinated vulnerability disclosure for elections.

**Software Engineering Intern, Vanta** **June 2019 - August 2019**

- Contributed full-stack development to help build Vanta's automated compliance platform, including development of custom security scanners and customer-facing desktop application for deployed security tool.

**Prior Roles:**

- **Hackers and Hunters Intern, Uptake** – June 2018 – Red-team activity to discover company vulnerabilities

- **Founder**, Smart Ride — September 2016 — Created service to allow seniors to order Uber with a phone call
- **Web Development Intern**, Dom & Tom — June 2017 - July 2017
- **Software Engineering Intern**, SnapMobile — May 2016 - August 2016

### Education:

**Stanford University** **2018 - 2021 (expected)**

Student at Stanford University pursuing B.S. in Computer Science

- Head Teacher's Assistant for INTLPOL 268: Hack Lab under professors Alex Stamos and Riana Pfefferkorn
- Technical Research Assistant for Stanford Internet Observatory under Professor Alex Stamos
- Research in network security under advisor Professor Zakir Durumeric
- Research in election security under Professor Nathaniel Persily for Stanford-MIT Healthy Elections Project
- Member of National Collegiate Penetration Testing Competition team, placing first at National level 2018 and 2019 ([nationalcptc.org](http://nationalcptc.org))
- Organized bug bounty launch for Stanford University, one of the first in higher education

### Programming experience:

Experienced in development using (large-scale) Python, JavaScript/TypeScript, Go, C, (medium) Java, C++, Swift, Objective C, PHP, Assembly, (small) Rust, OCaml

### Honors:

- Named one of Time Magazine's 25 Most Influential Teens of 2018
- Nominated for 2020 FedScoop 50 Award "Disruptor of the Year"

### Speaking:

- Frequent speaker on vulnerability disclosure, security research, and election security
- Engagements include talks at USENIX Enigma 2021, DEF CON Voting Village (2020, 2020, 2019), U.S. CyberTalks 2020, CISA Cyber Summit (2020, 2020), Stanford CyberFest, SF CyberTalks 2020, Shmoocon 2020, WSJ's Future of Everything Festival, WSJ Pro Cybersecurity 2020, Security@ by HackerOne (2018, 2019, 2020), Black Hat CISO Summit 2019, and DEF CON Aviation Village 2019

### Other Work and Writing:

- Discovered a temporary workaround to a nascent ransomware strain, saving 50 victims \$27,000 and leading to recognition from the U.S. Secretary of Homeland Security.
- Organized sign-on letter reaffirming the crucial role of security research in response to a Supreme Court Amicus Brief, with over 50 signatories including Congressman Jim Langevin. Cited in the petitioner's reply brief to the Court.
- Center for an Informed Public, Digital Forensic Research Lab, Graphika, & Stanford Internet Observatory (2021). The Long Fuse: Misinformation and the 2020 Election. Election Integrity Partnership. v1.2.0 Available at: <https://purl.stanford.edu/tr171zs0069>
- J. Cable\*, D. Gregory\*, L. Izhikevich\*, Z. Durumeric. Stratosphere: Finding Vulnerable Cloud Storage Buckets. Under Submission, April 2021. Available at: <https://zakird.com/papers/stratosphere-preprint.pdf>
- Online Voting Wasn't Ready for 2020. Don't Count on It Anytime Soon, Lawfare
- Preparing for Election Night: Counting and Reporting the Vote in Battleground States, Lawfare
- Why the U.S. Government Needs You to Hack It, Fast Company
- Every Computer Science Degree Should Require a Course in Cybersecurity, Harvard Business Review
- Response to IT-ISAC Request For Information on Coordinated Vulnerability Disclosure for Election Systems
- Response to CISA Binding Operational Directive 20-01 on Vulnerability Disclosure Policies