

Jesse Victors

White hat in web, network, and software security

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(encrypted communication available)

EDUCATION

- Utah State University in Logan, UT
- M.S. Computer Science, thesis in network security May 2015, GPA 3.61
- B.S. Computer Science, science emphasis Dec 2013, GPA 3.48, Dean's List

SKILL AND EXPERIENCE

- **Security consultant at Cigital/Synopsys (February 2016 – present)**
 - Responsibilities include:
 - Conducting penetration tests, threat modeling, and vulnerability assessments
 - Using testing tools including Burp Suite, ZAP, Fiddler, Nessus, and Wireshark
 - Working with internal security teams and developers to ensure timely remediation
 - Revising security policies and internal documentation for Fortune 500 companies
 - Delivering on-site instructor-led training (ILT) at client locations
 - Discovered critical vulnerabilities in production with impact to proprietary data
 - Authored two popular public articles on Synopsys Software Integrity Group blog
 - Quoted by media outlets on software security topics
 - Became a subject matter expert in applied cryptography
- **Network architect, developer, & sysadmin for the Tor Project (Fall 2014 – Fall 2016)**
 - Designed a decentralized DNS for Tor hidden services, a 16-year-old usability problem
 - Published the Onion Name System (OnioNS) in *Proc. on Privacy-Enhancing Tech. 2017*
 - Implemented OnioNS in C++11 for Tor Summer of Privacy 2015, later rewrote in Golang
 - Built amd64 and ARMv7 Linux packages with git hooks for continuous integration
 - Maintained a Tor exit node and censorship-resilient bridge since 2014
 - Identified and reported a Tor vulnerability that lets Tor routers artificially gain traffic
- **Software engineer for USU Space Dynamics Laboratory (Summer 2014)**
 - Coordinated sensors and mechanical components on high-altitude weather balloon
 - Logged mission-critical sensor data into redundant drives
 - Sent event logs over a serial connection to ground station
- **Software engineer for USU AUVSI RoboSub (Fall 2013 – Spring 2015)**
 - Lead the software team and wrote low-level drivers for autonomous submarine
- **Lead author and editor for Wikipedia (Spring 2012 – Fall 2014)**
 - Voluntarily brought the Folding@home article from a stub to a Featured Article
 - 43,200 edits to Wikipedia, one of the 1000 most active users

INDEPENDENT PROJECTS

- Currently writing a Wireshark plugin to reverse-engineer game traffic from the HTC Vive
- Built a very-low-energy weathercam for a remote Alaskan cabin using Raspberry Pis
- Used a BeagleBone Black to hold a WiFi link across two miles of ocean
- Configured subnets, custom DNS server, and an enterprise-grade firewall in my apartment
- Identified and reversed printer steganography (yellow dots) in Synopsys office printers
- Able to consistently lockpick into my own apartment in under 10 seconds