


ANTHONY HALLAK

ahall012@ucr.edu ◇ anthony.hallak.net ◇ : anthony-hallak

EDUCATION

University of California, Riverside
Computer Science with Business Applications B.S.

August 2018 - June 2022
GPA: 3.70

TECHNICAL STRENGTHS

Programming Languages: C++, Python, Golang, Bash, L^AT_EX, TypeScript, JavaScript, Java, Rust
Technologies: Debian & RedHat Linux, Git, GitHub, Metasploit, Burp Suite, Wireshark, React

EXPERIENCE

Software Development Engineer Intern

June 2021 - September 2021

Amazon.com

- Added ad hoc extensibility via DynamoDB, allowing multiple on-call teams to use an internal tool
- Migrated the entire frontend stack from JavaScript to TypeScript for better maintainability
- Improved webpage speed to be cut by 300ms, resulting in faster load times for end users

Undergraduate Research Assistant

July 2020 - June 2021

Prytaneum - School of Public Policy, University of California, Riverside

- Designed a settings page for users to change their personal information, email, and password.
- Wrote and developed multiple unit tests with Jest and Storybook for 50% more code coverage
- Automated documentation generation using Typedoc and Jsdoc with the better-docs plugin

Penetration Tester - Contract Auditor

August 2020 - September 2020

Piñata Farms

- Identified 3 critical vulnerabilities in a Vue web application, including the ability to appear as a different user
- Utilized Burp Suite to intercept and modify web requests, as well as repeat requests to comment as someone else
- Discovered and reported GraphQL queries that exposed user information, bolstering their exfiltration defense

Linux Administration Lead – Captain

October 2018 - Present

Western Regional Collegiate Cyber Defense Competition (WRCCDC) - 3rd place overall in 2021

- Wrote automation scripts that properly configure endpoints and saved 15-25 minutes across 6 machines
- Repaired and reconfigured SMTP email using postfix to allow LDAP users to send and receive emails
- Audited an estimated 50 users and services running to safeguard machines against 70% more attacks

PROJECTS

Citrus-SIEM - CitrusHack 2021 - Winner of the Cybersecurity category

April 2021

- Utilized Material UI in React and Typescript to make a fanciful and responsive user display
- Implemented the core server logic in Golang for safe, garbage collected web concurrency
- Wrote PowerShell and Bash scripts to automate the information forwarding

GoShark - CitrusHack 2020 - Winner of the Cybersecurity category

April 2020

- Captured 100% of incoming and outgoing packets from a specified network interface device
- Analyzed the packets for plain text transmission of critical data to notify the user of insecure communications
- Generated a L^AT_EX document summarizing the vulnerabilities enabling users to quickly identify areas of weakness

EvilPi - CitrusHack 2019 - Winner of the Cybersecurity category

April 2019

- Created a wardriving Raspberry Pi to reduce the time of Evil Twin attacks by approximately 30 minutes
- Automated the Aircrack-ng suite to deauthenticate a wireless network and capture handshakes
- Sent the captured handshake to Google Cloud Platform (GCP) to crack the WiFi password