

SAMANTHA CHALKER

SECURITY ENGINEER & PENETRATION TESTER

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in samchalker

Security professional focused on developing applications to assist individuals and companies protect their data through information security. Brings a diverse background of education and practical experience to the job, and strives to further knowledge and personal growth through on-the-job experience.

Skills

STRONG CAPACITY TO PERFORM

Vulnerability
Management
Threat Modeling
Application Architecture
Assessment
Bug Bounty Program
Management

LANGUAGES

Go
Java
Python
PHP
JavaScript, Node.js,
TypeScript

SECURITY TESTING SKILLS

Web Application and
Web Service Penetration
Testing
Mobile (iOS & Android)
Application Penetration
Testing
Manual Code Review of
Applications for
Vulnerabilities
Docker Security Review

Employment

IBM

X-Force Red Hacker

Remote

Jan. 2022 to Apr. 2024

- Performed all-around application security penetration testing
- Walked clients through vulnerabilities with expansive technical details
- Taught colleagues and interns mobile application security testing
- Helped with project management in areas that necessitated it

NerdWallet

Senior Security Engineer

Remote

Sept. 2020 to Oct. 2021

- Led the bug bounty practice and reformed criteria to meet researchers' needs
- Advised on engineering architecture assessments from an application security perspective
- Performed reviews on various aspects of frontend security as well as supply chain issues
- Mentored junior colleagues on more advanced topics

Twitter

Security Engineer (Penetration Tester, Contract)

Remote

Dec. 2019 to Aug. 2020

- Performed penetration testing on web and mobile applications on internal & external features
- Responded to bug bounty reports and re-tested reported issues after fixes were applied
- Set guidelines internally for pentesting, that included links to resources
- Followed up with developers on how to best remediate issues, or avoid pitfalls in the future

Wealthfront

Security Engineer

Redwood City, CA

June 2018 to Apr. 2019

- Performing penetration tests and security reviews
- Running the vulnerability management program and responding to bug bounty reports
- Assisting with identifying security weaknesses, misconfigurations and insecure code
- Provided help with automating security tests to avoid accidental vulnerabilities, including deploying security static analysis tools in a CI/CD context

NCC Group

Security Consultant

Sunnyvale, CA / New York City, NY / Remote

Aug. 2015 to May 2018

- Performed web application, web service, and mobile application penetration testing
- Handled communication with clients and remediation of vulnerabilities
- Trained fellow co-workers on testing applications involving binary protocols used by client-side JavaScript applications
- Developed several internal tools to aid in penetration testing and one public tool, WSSiP

Projects

WSSiP (WebSocket/Socket.io Proxy)

Jan. 2017 to Current

Developed an application in Node.js using Electron, React and Material-UI framework to view and manipulate WebSocket messages between client & server and vice versa.

Presented at Black Hat Arsenal US 2017. Currently undergoing a full rewrite as of 2023 and will include communication with other HTML5 communication protocols such as monitoring WebRTC.

TournamentStreamHelper

Sept. 2018 to Current

Contributor to TournamentStreamHelper, an application made in a mix of Python 3 & Qt, with JavaScript for specific functionalities. Used for scoreboards and relevant information to be presented on a video game tournament livestream.