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

NerdWallet
Senior Security Engineer

Remote
Sept. 2020 to Current

- 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.

Meetup to Telegram Bot
Sept. 2018 to Current

Developed an automatic application hosted on AWS Lambda and called by CloudWatch to fetch events happening in a particular social group on Meetup.com, and then automatically post the day's events at 9am every day on the chat application Telegram.