SAMANTHA CHALKER
SECURITY ENGINEER & PENETRATION TESTER

SUMMARY

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.

CONTACT

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SKILLS

STRONG CAPACITY TO PERFORM:
Vulnerability Management, Threat Modeling,
Application Architecture Assessment,
Application Security Mentoring,
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,
AWS Cloud Configuration Security Assessments,
Docker/Kubernetes Security Review

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.

EMPLOYMENT

Wealthfront
Redwood City, CA
Security Engineer · 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
Sunnyvale, CA / New York City, NY / Remote
Security Consultant · 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

Xyelot LLC
Bellevue, WA
Software Developer · Apr. 2010 to July 2013
Software Developer for eSports discussion forum Smashboards.

- Wrote cron job to download XenForo Forum Software when a critical update was released
- Oversaw continued development on tools to help fix software issues
- Performed testing of features to ensure the forum software and addons were not vulnerable
- Wrote site features in XenForo plugins using Zend MVC which eased transition from vBulletin 3.6 to XenForo 1.1