

# 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, 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

### 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

#### Twitter

Remote

Security Engineer (Penetration Tester, Contract)  
· Dec. 2019 to Current

- 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

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