

# Elliot Alderson

## Cybersecurity Engineer

Highly talented and accomplished IT professional with 10+ years industry experience specializing in cybersecurity. Proven ability to deploy, administrate, maintain and secure IT infrastructures. Also, I'm an imaginary software engineer from the american drama-thriller television series *Mr. Robot*, created by Sam Esmail.

## Contact

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New York City, USA

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## Disposition

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I'm looking for consulting work as a full time contractor for companies based in NYC or companies that allow remote work.

## Work Experience

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### ***Allsafe Cybersecurity***

01-01-2014 - 01-01-2016

*Chief Cybersecurity Engineer*

*New York City, USA*

At my job with Allsafe Cybersecurity I'm responsible with maintaining and securing client IT infrastructures.

#### Highlights

- Developed and implemented online security procedures
- Worked with management to set security standards and manuals

IAM

UNIX

IPSec

VPN

EIGRP

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### ***BigCorp Inc.***

01-01-2012 - 01-01-2014

*Cybersecurity Engineer*

*New York City, USA*

My responsibility at BigCorp Inc. was to find holes in their system, until it was 'hacker-proof'.

#### Highlights

- Developed complicated network infrastructure from scratch
- Secured running applications and full network infrastructure

OSPF

BGP

SSH

ModSecurity

Fail2Ban

RKHunter

Nmap

## Education

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### **Columbia University**

01-01-2010 - 01-01-2011

*Computer Security, Master (4.0 gpa)*

*New York City, USA*

Computer Security

### **Columbia University**

01-01-2008 - 01-01-2011

*Computer Science, Bachelor*

*New York City, USA*

Computer Science

## References

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### **Angela Moss**

*Account Executive, Allsafe Cybersecurity*

“ Elliot is a very loyal and competent employee.

### **Gideon Goddard**

*CEO, Allsafe Cybersecurity*

‘ Elliot is a very loyal and competent employee.

## Projects

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### **OpenDoor**

01.01.2014 - Present

*Command line application*

***<https://github.com/elliotalderson/opendoor>***

A tool to check a system for open ports and other known security holes

C++

## Open Source

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### **Tor**

01.01.2010 - Present

*Desktop Application*

***<https://gitweb.torproject.org/tor.git>***

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

C

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### **F-coin**

01.01.2015 - Present

*Cryptocurrency*

***<http://git.fcoin.org>***

F-coin is a peer-to-peer cryptocurrency and open source software project released under the MIT/X11 license

Cryptocurrency

C++

## Qualifications

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### **Cybersecurity Specialization**

01.01.2015

*Course*

*University of Maryland*

The Cybersecurity Specialization covers the fundamental concepts underlying the construction of secure systems, from the hardware to the software to the human-computer interface, with the use of cryptography to secure interactions.

Cryptography

Hardware Security

Software Security

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### **ITIL® Master Qualification (ITILMA)**

01.01.2012

*Certification*

*Exin*

The ITIL Master Qualification Certificate validates the capability of the candidate to apply the principles, methods and techniques from ITIL in the workplace.

Problem Management

IS Governance

Risk Management

## Skills

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### Computer Security

Although to completely secure a system you have to know every layer of the stack, there are some common tools that I use on a regular basis.

OSPF BGP SSH ModSecurity Fail2Ban RKHunter Nmap IAM UNIX IPSec VPN  
EIGRP

### Programming

I use the tool which is right for the job, and I am certain I can pick up any programming language that is necessary to get the task done.

C C++ Java PHP

## Recognition

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### *Google Summer of Code*

01.01.2012

*Award*

*Google*

Google Summer of Code is a global program that offers post-secondary student developers stipends to write code for various open source software projects.

Java

## Writing

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### *Applied Cryptography*

01.01.2014

*Book*

*O'Reilly Media*

Cryptography or cryptology is the practice and study of techniques for secure communication in the presence of third parties called adversaries. More generally, cryptography is about constructing and analyzing protocols that prevent third parties or the public from reading private messages;

Cryptography

## Reading

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### ***Post-Quantum Cryptography***

01.01.2009

*Book*

*Daniel J. Bernstein and Johannes Buchmann*

This book is an essential resource for students and researchers who want to contribute to the field of post-quantum cryptography.

Cryptography

RSA

DSA

ECDSA

## Speaking

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### ***Viability and the future of cryptocurrencies***

January 6, 2017

*Real World Cryptography Conference 2017*

*Columbia University in New York City*

In this talk I gave a brief overview of the cryptocurrency landscape, arguments for and against its viability, and my opinion about the future.

cryptocurrency

F-coin

## Patents

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### ***Anonymous peer-to-peer verification through cryptographic key-address mapping (US11111FAKE1234)***

*Issued*

01.01.2016

Disclosed is a method for peer-to-peer verification through cryptography key-address mapping, which allows users of a cryptocurrency to verify the authenticity of a transaction without the need to disclose private information of involved parties.

F-coin

cryptocurrency

## Languages

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**English:** Native, 26 year(s)

**French:** Elementary, 1 year(s)

## Governance

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### ***Tor browser***

01.01.2015 - Present

*Non-Profit Organization*

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

encryption

## Service

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### ***ACLU***

01.01.2015 - Present

*Non-Profit Organization*

*125 Broad St., 18th floor, New York, NY 10004*

ACLU's mission is to defend and preserve the individual rights and liberties guaranteed to every person in this country by the Constitution and laws of the United States.

Privacy

Free Speech

## Interests

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### **Arduino**

I love to play around with hardware once in a while. I build myself a simple cellphone (on Arduino). Next I want remove the arduino, and custom print my chip design to get the size down.

### **Gaming**

I don't play as often as I used to, but once in a while I still love to loose myself in a great game.