

# Peter Browning

Cybersecurity Professional

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🔄 <https://github.com/peterbro1>

📍 Augusta, GA

🌐 <https://peterbrowning.net>

## Tl;dr

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I am a dedicated cybersecurity professional with expertise in red teaming, penetration testing, and security engineering. I thrive in complex security environments, continuously refining my skills to stay ahead of emerging threats.

## Certifications & Credentials

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- › OSCP - Offensive Security
- › CySA+ - CompTIA
- › Pentest+ - CompTIA
- › Security+ - CompTIA

## Professional Experience

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### Articulate Global

Dec 2022 - Present

#### Infosec Engineer

- › Orchestrate and execute a company-wide realistic phishing exercise
- › Serve as the on-call security DFIR engineer to address the security concerns of SEV1 events
- › Automate asset scanning for vulnerabilities, secrets
- › Use modern tools like CrowdStrike Falcon and Splunk to monitor the overall security posture of the company
- › Perform regular application security assessments to ascertain the security of new services, including manual and automated scanning and exploitation
- › Establish mature IAM security posture across multiple accounts and hundreds of separate services
- › Deploy services in AWS EKS using mature homegrown CI/CD pipelines
- › Assist in the creation of secure IaC using modern security methodologies and tools including zero trust architecture, Terraform and AWS EKS

### Scientific Research Corporation

Jun 2021 - Dec 2022

#### Cybersecurity Engineer

- › Create, deploy, and test a cyber range used by the DoD for testing and R&D
- › Automate creation and setup of networks using Ansible-based DoD N/CRAF framework
- › Design, plan, and create practical and realistic red team training lab for prospective OSCP applicants, serving as a capstone for our red team training course
- › Modify, optimize, and add to the N/CRAF framework to assist in the automation of range environments
- › Perform red team adversarial simulation for the Army Cyber Protection Brigade
- › Automate and design modular C2 infrastructure network for quick plug-and-play when performing red team operations

## Augusta University

Jan 2022 - Aug 2023

### Undergraduate Research Assistant

- › Create a functional implementation of a reversible process algebra compiler and parsing application from scratch
- › Understand theoretical computation and representation using discrete math and various theories
- › Develop typesetting skills using LaTeX to write and publish articles in scientific academia journals
- › Present the future impact and significance of reversibility in cybersecurity to broad audiences
- › Practice presentation and public speaking skills at various symposiums and conferences

## Georgia Cyber Range

Jan 2021 - Jun 2021

### Software Developer

- › Enhance and optimize features and algorithms in old software
- › Collaborate with others in a team environment to procure quality software
- › Utilize and update outdated opensource projects
- › Understand openstack infrastructure for cyber range virtualization environments

## Augusta University

Sept 2019 - Jan 2021

### IT Specialist

- › Resolved problems with faculty equipment, machines, and computers
- › Used remote control software to remotely resolve software issues
- › Disassembled, replaced, and repaired damaged or defective computer parts
- › Managed the quoting, ordering, and retrieval of new equipment

## Education

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### Augusta University

2023

#### Bachelor of Science in Cyber Operations

### Augusta University

2023

#### Certificate in Cyber Defender

## Technical Skills

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|------------------------------------|--|
| <b>Offensive Security</b>          | Penetration Testing, Vulnerability Assessment, Red Teaming / Adversary Simulation, Exploit Development         |
| <b>Defensive Security</b>          | SIEM Implementation, Threat Hunting, Incident Response, Malware Analysis, Secure Code Reviews, Threat Modeling |
| <b>Compliance &amp; Governance</b> | ISO 27001, NIST, GDPR, SOC2  |
| <b>Cloud Security</b>              | AWS Elastic Kubernetes Service, GitHub Actions CI/CD, AWS Identity and Access Management                       |
| <b>Tools &amp; Technologies</b>    | Kali Linux, Metasploit, Wireshark, Burp Suite, Nessus, Splunk  |

## Specialized Expertise

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Penetration Testing

Incident Response

Network Security

Cloud Security

Security Architecture

Web Application Security

## Publications & Presentations

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- *Implementing Reversible Process Calculi* at 2022 AFCEA Technet, Augusta, GA, 2022-01-01
- *Implementing Reversible Concurrent Process Calculi* at 2021 Augusta University CURS SSP Symposium, Augusta, GA, 2021-01-01
- *Implementation of a Reversible Distributed Calculus* at 15th International Conference on Reversible Computation, Giessen, Germany, 2023-05-18
- *Implementation of a Reversible Distributed Calculus* published in [Reversible Computation](#)
- *A Functional Implementation of Reversible Concurrent Formal Languages* at 2021 Phi Kappa Phi Conference, Augusta, GA, 2021-01-02