

Simon Campos Greenblatt

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Education

Brown University | Providence, RI

Sc.M. in Cybersecurity, Computer Science Track

Expected May 2024

Relevant Courses: **Computer Security**, Applied Cryptography

North Carolina State University | Raleigh, NC

B.S. in Mathematics with Minor in Computer Programming

May 2022

Distinctions: Graduated **summa cum laude**, Mathematics Honors Program, 3.9 GPA

Relevant Courses: Operating Systems, Data Structures and Algorithms

Work Experience

Fermilab National Accelerator Laboratory | Batavia, IL

Expected Summer 2023

U.S. Department of Energy OMNI Technology Alliance Cybersecurity Internship Program

Worked with a team of 7 interns and 3 security architects on a software enhancement project for the cybersecurity engine at Fermilab. Using the **Ruby on Rails** framework, I evaluated new features, operated vulnerability scanners, and learned about network blocking mechanisms.

Projects

Secure File Storage

Spring 2023

Implemented an API in Python for users to upload, download, and share files using **end-to-end encryption**. Employed public and private key cryptography as well as message authentication codes to provide data confidentiality and integrity while defending against a malicious adversary. Skills: **secure software development**, defense in depth, security by design

Cybersecurity Exercises

Spring 2023

Hacking a website: Used exploits to perform unauthorized actions on a website. Created **vulnerability reports** detailing discovery, impact, and mitigation. Bypassing access controls: Demonstrated how safelists can prevent privilege escalation by breaking an autograding system. Attacks: SQL Injection, XSS, CSRF, Symlink Traversal, Path Sanitization Bypass

Research Papers

Fall 2022

Usability of Authentication: Human-centric improvements to password management and mobile and multi-factor authentication. Cybersecurity of Critical Infrastructure: Government cooperation with the private sector and the economic, social, and moral incentives at play.

Concepts: **authentication mechanisms**, user experience, cybersecurity law

Skills

Programming: Java, C, C++, Python, Ruby

Technologies: Burp Suite, Wireshark, Kali Linux, Jenkins, Docker, Git, Visual Studio, Eclipse

Communication: Fluency in English, Spanish, French, and Italian. Experience as TA and tutor

Cybersecurity Concepts: STRIDE threats, NIST Cybersecurity Framework, OWASP Top 10