

Kyle Timmermans

Information Security Specialist

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EDUCATION

- NYU Tandon School of Engineering** Brooklyn, NY
Master of Science - Cybersecurity May 2023
NSA National Centers of Excellence in Cybersecurity – Designations: Cyber Defense & Cyber Operations
Scholarship: ASPIRE Scholarship Recipient (SFS CyberCorps)
Courses: Penetration Testing & Vulnerability Analysis, Applied Cryptography, Computer Networking, Network Security, Application Security, Information Security & Privacy, Information Systems Security & Management, Database Systems
- Fordham University** Bronx, NY
Bachelor of Science - Computer Science May 2021
Minor: Cybersecurity
Courses: CompSci I & II (C++), Operating Systems, Algorithms, Data Science, Data Communication & Networking, Theory of Computation, Web Development, Discrete Math, Databases, Data Structures, Web Development, Forensic Computing

CERTIFICATIONS

- CompTia Security+ (SY0-601) - July, 2022

SKILLS SUMMARY

- Languages:** Python, C++, Go, JavaScript/HTML/CSS, SQL, Bash/Zsh, LaTeX
- Platforms:** Linux (Debian), MacOSX, Windows, AWS, Web
- Soft Skills:** Russian (Intermediate), Teamwork-Oriented, Public Presentations
- Tools:** Kubernetes, Docker, Git, PostgreSQL, Splunk, Burp Suite, Wireshark, nmap, Metasploit, edb-debugger, Bettercap, Selenium, hashcat, gcc, Kali Linux, gdb, Ghidra, pwntools, sqlmap, MySQL

CVE PUBLICATION

I found a vulnerability in the Learning Management System, Blackboard. I completed a write-up about the issue and followed the necessary steps in having it published by MITRE and NIST. It was given the enumeration: CVE-2020-9008. The publication can be found [here](#), and the write-up is located [here](#).

PROJECTS

I enjoy programming in my free time and have several projects that are both finished and in the works. I have utilized a number of various languages and libraries for these projects. All of my works/projects can be found [here](#), on the projects page of my website.

WORK & LEADERSHIP EXPERIENCE

- Sandia National Laboratories** Remote / Albuquerque, NM
TITANS Cybersecurity Year-Round Intern May 2022 – Dec 2022
- Simulmedia Inc** Manhattan, NY
DevOps Intern June – July 2021
 - Created a Slack bot that alerts on OpenVPN errors or security issues / events. Written in Python3 and uses a custom algorithm for finding live updates in a sqlite database and preventing duplicates
 - Created a date parser in Python3 using the re and datetime libraries. Handles multiple date formats from Unix date timestamps to full month and day names
 - Improved a Python script that is used to collect the metrics of a service that are then sent to Datadog
 - Penetration Testing - Testing and dissecting different routes of microservices and gateways using tools such as Burp Suite
 - Researched and implemented Multi-Factor Authentication for OpenVPN Access Server
 - Researched, compared, and presented findings on potential use of key features in OpenVPN, Wireguard, and in AWS Client VPN
 - End-of-internship presentation for a company audience of 100+
 - Tools / Technologies Used: Git (GitHub), AWS CLI, AWS Linux 2, Python3, Datadog, AWS EC2/ECS, AWS IAM, cron, syslog, AWS Client VPN, webhooks, Burp Suite, sqlite3, LDAP, SSO (OneLogin)

- **Decipher Technology Studios (greymatter.io)** Alexandria, VA
DevOps Security Intern May – August 2020
 - Implemented the use of Open Policy Agent into a service mesh infrastructure in order to help protect sensitive information and Restful API endpoints
 - Designed and wrote policies in the Rego policy language for Open Policy Agent
 - Applied the FIPS 140-2 encryption standard to a service mesh built on top of Envoy proxy to ensure FIPS compliance
 - Wrote a small Kubernetes config sanitizer in GoLang for security purposes
 - Completed official documentation for projects in Markdown using GitBooks
 - Presented work in several product review meetings (SCRUM Meetings – Agile Development)
 - Used Throughout Internship: Docker, Kubernetes, Envoy Proxy, Git, Bazel, k3d, CircleCI, Helm Charts, Curl, Linux Command Line
- **Pico Quantitative Trading LLC** Chicago, IL
Information Security Team Intern July 2019
 - Created Company Information Security policies including Bluetooth device security and Virtual Machine policies
 - Created reports for data collection and organization in Lansweeper by writing SQL scripts that search and organize host information across several Pico networks
 - Used PowerShell scripts to streamline network tasks
 - Performed GRC Incident and InfoSec compliance work
 - Used Microsoft Excel (Pivot Tables) to log Security Incident Reports back to 2016 up until 2019, organized and compiled statistics on elements such as: *Risk Type*, *Severity*, and *Affected Parties*
 - Compiled data into a readable summary in Microsoft PowerPoint to represent crucial data trends for Information Security Reports used by the InfoSec team
 - Studied SANS institute InfoSec Policies
 - Utilized Microsoft Visio to create detailed virtual schematic models of different networks and devices operated by Pico
- **Elevated Computing** Manhattan, NY
Information Technology Intern July – August 2014
 - Undertook computer science research related to networks and communications
 - Responsible for server management and creation of Linux server (Cent OS)
 - Utilized Nagios XI to monitor health of client networks/servers
 - Provided IT support to client's employees, including both phone and remote desktop support
- **Department of Immunology & Microbiology, New York Medical College** Valhalla, NY
Research Assistant July – August 2015
 - Performed bench research related to DNA toxoplasmosis parasite known as *T. Gondii*
 - Used methods such as Polymerase Chain Reaction and Gel Electrophoresis
 - Attended a conference related to research
 - Drafted research paper summarizing research results
- **Fordham Preparatory School** New Rochelle, NY
Assistant Rowing Coach May – August 2018
 - Driving students to and from the Fordham Prep campus, boathouse, and New Rochelle train station in a Fordham Prep bus
 - Driving boat launch alongside rowers whilst coaching
 - Working with 50+ student athletes to ensure safety and proactivity
 - Responsible for organizing and maintaining rowing equipment
 - Created lineups for Freshman, JV, and Varsity sweeping and sculling boats

COLLEGE ACTIVITIES & AFFILIATIONS

- **Fordham Computer Science Society:**
 - Active Member since February 2019
 - Robotic building with Arduino boards
 - Presented in student-run Cybersecurity presentation
- **Fordham Men's Rowing Team:**
 - Rowed every season since Freshman year
 - Gold Medals at Metropolitan Regatta (2017, 2018, 2019, 2020)
 - Bronze Medal at Head of the Housatonic (2017)
 - Experience rowing collegiate Pair, Double, Four, and Eight Boat
- **NYU OSIRIS CTF Team ([My profile](#)):**
 - Ranked 4th place on OSIRIS CTF Recruit Leaderboard - Nov, 2022
 - Ranked 7th place on OSIRIS CTF Recruit Leaderboard - Aug, 2022