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 – Designation: *Cyber Defense*

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, Mobile Security*

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, Forensic Computing*

CERTIFICATIONS (CREDLY)

- GIAC Certified Incident Handler (GCIH) - October, 2024
- CompTia Security+ (SY0-601) - July, 2022
- NSA-CAE Cyber Defense Designation - July, 2023
- Google Cybersecurity Professional Certificate - September, 2023

SKILLS SUMMARY

- **Languages**: Python, C++, Go, JavaScript/HTML/CSS, SQL, Bash/Zsh, LaTeX
- **Platforms**: GNU/Linux (Debian-based), 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, MITRE ATT&CK

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, both completed and in progress. I have used a variety of programming languages and libraries for these projects. All of my projects/works can be found here, on the projects page of my website.

WORK & LEADERSHIP EXPERIENCE

New York City Cyber Command — Brooklyn, NY
Cyber Security Analyst II (Threat Content Engineer) — *Sept 2023 – Present*

Sandia National Laboratories — Remote / Albuquerque, NM
TITANS Cybersecurity Year-Round Intern — *May – 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

College Activities & Affiliations

- **Fordham Computer Science Society:**
  - Active Member from February 2019 - May 2021
  - 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** (Old profile, New profile):
  - Ranked 1st place on OSIRIS CTF Recruit Leaderboard - May, 2024
  - Ranked 4th place on OSIRIS CTF Recruit Leaderboard - Nov, 2022