

# 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*
- Pelham Memorial High School** Pelham, NY  
*Regents Diploma, Advanced Designation* June 2017

## CERTIFICATIONS

- 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:** 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, Tkinter, gcc, Bootstrap 5, VMWare Workstation, VirtualBox, Ghidra, pwntools, Shotcut, cpdf, Kali Linux, hashcat, sqlmap, MS Word / Google Docs, MS Excel / Google Sheets, MS PowerPoint / Google Slides, MySQL, JavaFX, Jupyter Notebook, Streamlit, Jekyll, IDA Pro, 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 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

- 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
- Apart of Sprint Reviews every week
- End-of-internship presentation for a company audience of 100+
- Tools / Technologies Used: Git (GitHub), AWS CLI, AWS Linux 2, Python3, Clubhouse.io, Datadog, AWS EC2 / ECS, AWS IAM, cron / crontab, syslog, AWS Client VPN, json, webhooks, curl, Burp Suite, SQL, Jenkins, Viscosity, 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

- **VIP Beach Club**

New Rochelle, NY  
May – August 2017 & 2018

- *Front Gate Security*

- Signing in club guests and checking identification
- Charging guests at the register in order to add funds to their respective accounts
- Working with management and guests directly in order to ensure quality of life at the club
- Guest-Club relations

- **Huguenot Memorial Youth Group**

Pelham, NY / Nindiri, Nicaragua  
July 2015 & 2016

- *Mission Trip Member*

- Organized a Spanish class in June of 2015 for participants in an upcoming volunteerism trip to Nindiri, Nicaragua
- Traveled to Nindiri in July 2015 & 2016 to build homes for impoverished local Nindiri families

## COLLEGE ACTIVITIES & AFFILIATIONS

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- **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 4th place on OSIRIS CTF Recruit Leaderboard - Nov, 2022
- Ranked 7th place on OSIRIS CTF Recruit Leaderboard - Aug, 2022

## PERSONAL INTERESTS

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- Studying & Speaking Russian Language
- Computer Programming: [My projects](#)
- Crew (Rowing): 9 years
- Soldering & Arduino
- Skiing & Snowboarding
- Hiking, Outdoors, Camping