

# Kyle Timmermans

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## EDUCATION

- NYU Tandon School of Engineering** Brooklyn, NY  
*Masters in Science - Cybersecurity (3.8 GPA)* August 2021 - May 2023  
*Scholarship:* ASPIRE Scholarship Recipient (SFS CyberCorps)  
*Courses:* Penetration Testing & Vulnerability Analysis, Applied Cryptography, Network Security, Application Security, Information Security & Privacy, Information System Security & Management
- Fordham University** Bronx, NY  
*Bachelor of Science - Computer Science* August 2017 - 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
- Pelham Memorial High School** Pelham, NY  
*Regents Diploma, Advanced Designation* September 2014 - June 2017

## 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, MySQL, Splunk, Burp Suite, Wireshark, nmap, Metasploit, edb-debugger, Bettercap, Selenium, Tkinter, gcc, Bootstrap 5, VMWare Workstation, VirtualBox

## 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 Intern* May - August 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. Also sends user metrics and alerts to Datadog. Uses sqlite3, datadog, and webhooks
  - 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. Returns a datetime object in ISO-8601 standard
  - Improved a Python script that is used to collect the metrics of a service that are then sent to Datadog
  - Security Testing / Pentesting - Testing and dissecting different routes of microservices and gateways using tools like Burp Suite in order to discover potential security vulnerabilities
  - Researched and implemented Multi-Factor Authentication for OpenVPN Access Server
  - Researched, compared, and presented findings on potential use of High-Availability, Logging, Metrics, and SSO/SAML 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 programming 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  
*Front Gate Security* May – August 2017 & 2018
  - 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

- *Mission Trip Member*

*July 2015 & 2016*

- 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 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:**

- Ranked 7th place on OSIRIS CTF Recruit Leaderboard - August, 2022 ([My profile](#))

## PERSONAL INTERESTS

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- Studying & Speaking Russian Language
- Computer Programming: [My projects](#)
  - Python, C++, JavaScript, Zsh/Bash, HTML/CSS
- Crew (Rowing): 9 years
- Soldering & Arduino
- Skiing & Snowboarding
- Hiking, Outdoors, Camping