Kyle Timmermans

Information Security Specialist

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EDUCATION

NYU Tandon School of Engineering — Brooklyn, NY

Masters in Science - Cybersecurity (3.8 GPA) — *May 2023*

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*

Pelham Memorial High School — Pelham, NY

Regents Diploma, Advanced Designation — *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, Ghidra

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 - May 2023*

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
  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

- **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

- 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