

## Alfred Simpson

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### CITIZENSHIP: USA

**OBJECTIVE:** Scholarship for Service participant seeking summer internship with a focus on cybersecurity during Summer 2024 and beyond.

### EDUCATION:

NSF CyberCorps SFS Scholar: 09/2024 – Current

#### M.S. Cyber Security & Privacy – New Jersey Institute of Technology, Newark, NJ

- Anticipated Graduation Date: 05/2026
- GPA: 3.94

#### B.S. Information Technology – New Jersey Institute of Technology, Newark, NJ

- *Graduation Date:* 05/20/2024
- *GPA:* 3.94
- *Honors:* Dean's List
- *Relevant Courses:* Computer Forensics, Computer Systems Security, Digital Crime, Ethical Hacking for Administrators, Privacy Information & Technology; Advanced Programming for Information Technology, Computer Systems and Networks, Database Design Management and Applications, Information Design Techniques, Internet Applications, Wireless Networks, Systems Integration
- Scholarship for Service program participant

### RELEVANT EMPLOYMENT HISTORY:

#### Schonfeld Strategic Advisors

New York, NY

Cybersecurity Intern – 40+ hours per week

06/05/2023 – 08/11/2023

As a cybersecurity intern at Schonfeld Strategic Advisors, I actively identified and addressed security vulnerabilities using sophisticated tools and led internal penetration testing to fortify physical and digital security. I also played a pivotal role in vendor assessments and the exploration of advanced CAASM solutions, further enhancing the organization's cyber defense measures.

- Identified and remediated over 2,000 low to critical vulnerabilities utilizing tools such as Wiz.io and Rapid7 Insights VM.

- Conducted vendor evaluations to identify potential proof-of-concept partners in coordination with the governance, risk, and compliance team.
- Thoroughly assessed various Cyber Asset Attack Surface Management (CAASM) solutions, including Noetic Cyber, Hubble, and JupiterOne.
- Spearheaded internal penetration testing efforts targeted physical security measures.
- Supported internal digital penetration testing by developing PowerShell scripts to identify weak passwords and implement password change protocols through Active Directory.
- Coordinated with multiple teams to investigate potential compromise in Citrix environment and rollout necessary updates without disrupting business operations.

## **New Jersey Institute of Technology**

Newark, NJ

IS/IT Grader – 20 hours per week

01/01/2022 – 05/31/2023

In my role as an IS/IT Grader at the New Jersey Institute of Technology, I actively tutored students in essential IT concepts, providing support and guidance. My responsibilities also included meticulous grading of various academic assessments. A notable contribution was the creation of an innovative homework assignment that encouraged students to apply their understanding of computer hardware and budgeting, fostering a deeper engagement with the subject matter.

- Provided weekly tutoring to students on fundamental Information Technology concepts such as binary, hexadecimal, networking, cybersecurity, database design, computer hardware, and website development.
- Assumed responsibility for grading assignments, exams, and projects, ensuring accuracy and fairness.
- Designed and implemented a core homework assignment, tasking students with the creative challenge of developing a personal computer build proposal, tailored to a constrained budget.

## **SKILLS SUMMARY:**

- **Vulnerability Management & Threat Hunting:**
  - CrowdStrike, DFIR (Digital Forensics and Incident Response), Nessus, Splunk, Wiz.io
- **Networking:**
  - **Protocols:** TCP/IP, HTTP/HTTPS, DNS, SMTP, POP3
  - **VPN Technology:** OpenVPN, ProtonVPN
  - **Monitoring:** Wireshark, DataDog
- **Operating Systems:**
  - Linux (CentOS, Ubuntu, Kali, Parrot), macOS, Windows
- **Cloud Computing**

- **IaaS:** AWS EC2, Digital Ocean
- **SaaS:** M365, G-Suite, Salesforce
- **Cloud Security:** Azure Active Directory
- **Programming Languages & Frameworks:**
  - **Programming:** Python, Java, JavaScript,
  - **Web Frameworks:** Django, Flask, Express
  - **Scripting:** Bash, PowerShell
- **Web Development:**
  - **Front-End:** HTML, CSS, JavaScript
  - **Back-End:** PHP, RabbitMQ
  - **Databases:** SQL, PostgreSQL, MongoDB
- **Compliance:**
  - AuditBoard, Varonis DatAdvantage
- **Soft Skills:**
  - **Leadership:** Managed multiple teams and diverse projects through to completion
  - **Communication:** Excellent written and verbal communication skills
  - **Problem Solving:** Strong analytical and troubleshooting abilities
  - **Attention to Detail:** High level of accuracy in code development and security assessment

## CERTIFICATIONS:

- |   |  |
|---|--|
| ● <b>Introduction to Cybersecurity:</b>           | Codecademy, Issued September 2023        |
| ● <b>Learn HTML Course:</b>                       | Codecademy, Issued September 2023        |
| ● <b>Learn CSS Course:</b>                        | Codecademy, Issued September 2023        |
| ● <b>Learn SQL Course:</b>                        | Codecademy, Issued September 2023        |
| ● <b>Cybersecurity Fundamentals:</b>              | IBM, Issued August 2021                  |
| ● <b>Enterprise Design Thinking Co-Creator:</b>   | IBM, Issued December 2020                |
| ● <b>Enterprise Design Thinking Practitioner:</b> | IBM, Issued December 2020                |
| ● <b>Achievement in Sales Mastership:</b>         | Winning by Design, Issued September 2019 |

## CYBERSECURITY ACTIVITIES & ACCOMPLISHMENTS:

- **SpookyCTF2023 – Lead Organizer & Challenge Developer (Fall 2023)**
  - Helped organize NJIT Information & Cybersecurity Club's third official CTF that had over 1,100 participants from around the world.
  - Created 10 of 30 challenges in OSINT, Cryptography, and digital forensic categories.
  - Created and managed digital infrastructure and incident response team.
- **JerseyCTF – Organizer & Challenge Developer (Spring 2023)**

- Helped organize NJIT's third cybersecurity capture-the-flag competition that had over 1500 registrants from around the world.
  - Submitted 11 of the 67 total challenges across multiple categories, including binary exploitation, OSINT, digital forensics, cryptography, web exploitation, and more.
  - Managed digital infrastructure and incident response efforts.
  - Led opening and closing ceremonies alongside co-organizers.
- **SpringForwardCTF – Lead Challenge Developer (Spring 2023)**
    - Organized NJIT's Information & Cybersecurity Club's first official international cybersecurity competition while managing a team of 8 developers.
    - Created 13 of 36 challenges focused on testing competitors on their knowledge of cryptography, digital forensics, OSINT, and steganography.
    - The event was attended by 350 teams from around the world.
- **NCAE-C Cybergames Northeast Regionals – Team Lead (Spring 2023)**
    - Led and trained a team of seven members during their first attempt at the NCAE Cyber Games, a competition for university students attending National Centers of Academic Excellence in Cybersecurity
    - Managed incident response coordination and hardening efforts during the competition.
- **NJIT Information & Cybersecurity Club (NICC) - Founder & President (May 2022 – Present)**
    - Founded, organized, and created infrastructure for NJIT's first official cybersecurity student organization.
    - Lead efforts to create the organization's constitution which allowed the organization to be officially recognized in less than two weeks during their first official semester.
    - Grew membership from 2 to approximately 280 active members within 16 months.
    - Lead the executive leadership team to earn the 'New Student Organization of the Year' award through coordinated participation, student activities, administrative partnership, and community outreach.
    - Gave weekly seminars and workshops on cybersecurity and hacking fundamentals, including OSINT, steganography, virtual machines, case-building, and social engineering.
- **G1tc\_Gu4rdians – Team Lead (Fall 2022 – Present)**
    - The G1tc\_Gu4rdians (GITC Guardians) are one of five of NICC's officially sanctioned teams.
    - Coordinated efforts, training, and competition attendance to lead team to be in the top 2% nationally and top 3% internationally on CTFTime.org by Fall 2023.

- Tracked and managed members to coordinate NICC promotions, additional training, and areas for improvement.

## **HONORS & AWARDS:**

- **SFS CyberCorps Scholar** (Fall 2023 – Present)
- **New Jersey Society for Information Management Foundation Scholarship** (Fall 2022)
- **EvolveIP 2021 Cloud Scholarship** (Spring 2021)
- **NJIT Dean's List** (Fall 2021 - Present)
- **CUNY BMCC Dean's List** (Fall 2020)

## **EXTRACURRICULARS:**

- **The Vector Newspaper** – *Senior Staff Writer (2021-2023)*
- **WJTB Radio** – *President (2022-2023), Webmaster (2022), Program Manager (2021-2022), PR Manager (2021-22)*
- **IBM Make-A-Thon at CUNY BMCC** – *Team Lead (2020)*
- **Panther Partner at CUNY BMCC**– *Mentee (2020)*

## **CYBERSECURITY COMPETITIONS:**

For a full list of CTFs which I have competed in, please visit [ctftime.org/team/202828](https://ctftime.org/team/202828) or [ctftime.org/user/144343](https://ctftime.org/user/144343). This list is reserved for high ranking or special honors earned.

- DEADFACE CTF 2023 – *Earned Contributor, First Blood, and Competitor Badge.*
- DefCamp CTF 2023 Quals
- CYBERGON CTF 2023
- DawgCTF 2023
- StemCTF 2022
- Hackappatoi CTF '22
- InfoSec CTF 2022
- Sunshine CTF 2022
- CTF After Dark – Fall 2022

## **REFERENCES FOR ALFRED SIMPSON:**

- Cristian Borcea; [borcea@njit.edu](mailto:borcea@njit.edu); 973-596-2866; New Jersey
  - **Position:** Professor, Associate Dean for Strategic Initiatives, NJIT
  - **Relationship:** Academic

- **Description:** Dr. Borcea serves as one of the Principal Investigators of NJIT's Secure Computing Initiative and the Scholarship for Service program which I am a recipient and member of. I regularly meet with Dr. Borcea about my academic progress and SFS related activities.
- Reza Curtmola; reza.curtmola@njit.edu; 973-596-5776; New Jersey
  - **Position:** Professor & Director of the NJIT Cybersecurity Research Center, NJIT
  - **Relationship:** Academic
  - **Description:** Dr. Reza Curtmola serves as one of the Principal Investigators of NJIT's Secure Computing Initiative and the Scholarship for Service program which I am a recipient and member of. Dr. Curtmola also serves as the advisor for the student organization that I founded at NJIT. This has allowed me the opportunity to meet with and speak with Dr. Curtmola regularly about the progress of the organization, SFS related activities, and my academic progress.
- Mark Nazzaro; nazzaro@njit.edu; 201-926-8012; New Jersey
  - **Position:** Adjunct Professor, NJIT
  - **Relationship:** Professional
  - **Description:** Learned under Professor Mark Nazzaro and later went to serve as their classroom grader and assistant.
- Keith Collazo; kcollazo@schonfeld.com; 516-652-9472; Fishkill, New York
  - **Position:** Senior Cybersecurity Analyst, Schonfeld
  - **Relationship:** Professional
  - **Description:** Worked under Keith's leadership as a cybersecurity intern on the security operations team at Schonfeld Strategic Advisors, attended daily meetings, assisted in threat hunting, and vulnerability remediations.

# Aman Grover

[asg72@njit.edu](mailto:asg72@njit.edu) | (201) 895-2302

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**CITIZENSHIP:** United States of America

**OBJECTIVE:** Scholarship for Service participant seeking Cybersecurity internship in summer of 2024.

**AVAILABILITY:** Job Type: Summer 2024 Internship  
Work Schedule: Full Time Starting May 2024

**Desired Locations:** US -Maryland  
US - Virginia  
US - New Jersey  
US - New York  
US - Washington, D.C.  
US - Connecticut

## EDUCATION:

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**NSF CyberCorps SFS Scholar:** 09/2023 – 12/2024 (anticipated)

**M.S. IT Administration & Security** New Jersey Institute of Technology, Newark, NJ  
**GPA:** 4.00/4.00 **Expected Graduation:** 12/2024

- **Affiliations:** NSF CyberCorps Scholarship for Service program
- **Relevant Coursework:** Wireless Network Security & Administration, Systems Administration & Containerization Frameworks, Network Services Administration, Internet & Higher Layer Protocols, Network Management & Security, Information Systems Auditing

**B.S. Information Technology** New Jersey Institute of Technology, Newark, NJ  
**GPA:** 3.87/4.00 **Graduation:** 05/2023

- **Relevant Coursework:** Computer Systems Security, Ethical Hacking, Internet Applications, Computer Programming, System Administration, Database Administration, Systems Integration

## Achievements:

Dean's List, Magna Cum Laude

## TECHNICAL SKILLS:

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### Systems Administration:

- Linux (Ubuntu, CentOS7), Windows Server, AWS, Google Workspace, MySQL, Docker, Active Directory

### Operations Management:

- Asana, Trello, Google Sheets, Excel, SOPs, Inventory Forecasting, ERP, CRM, Automation

### Industry Knowledge:

- SSH, SSL, FreePBX, Asterisk, Git, NGINX, OpenVPN, WireGuard, 3CX, ESXI, AWS, EC2, Nagios, Visual Studio, UNRAID, NAS, UniFi, Network CLI, Telnet, GRE Tunneling, Cloudflare DNS, WAN, LAN, Regex

### Computer Programming:

- HTML, CSS, C#, Python, PHP, SQL, Bash, Java, Yaml

## WORK EXPERIENCE:

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### United Postal Service – Parsippany, NJ

Part Time - 02/2023 – 05/2023

#### *Software Project Manager*

**Hours Per Week: 24**

- Developing project plans and managing project resources to meet project goals and deadlines
- Tracking project progress and making adjustments as necessary to ensure successful project delivery
- Communicating project status, risks and issues to stakeholders and making recommendations for resolution
- Developing and implementing project management methodologies and best practices
- Collaborating with stakeholders to identify project requirements and priorities
- Building and maintaining positive relationships with project stakeholders and team members
- Evaluating and continuously improving project processes to ensure successful project delivery
- Mentoring and providing guidance to project team members as needed.

### Crestron Electronics – Rockleigh, NJ

Part Time - 01/2023 – 08/2023

#### *End User Support Intern*

**Hours Per Week: 24**

- Provided customer support via email, phone, and tickets
- Imaged Windows and macOS machines using SCCM and Jamf
- Managed Active Directory



**Brilliance Laser Inks** – Cinnaminson, NJ

Full Time - **07/2021 – 08/2023**

*Operations and Marketing Manager*

**Hours Per Week: 40**

- Stabilized Operating Procedures, Trained employees, and reduced human input/error.
- Led team of 5 people in weekly Operations & Product Development Meetings with continuous improvements.
- Integrated Email, Live Chat, Facebook, Instagram, TikTok Social Media Messaging into one ticketing system.
- Managed Amazon Global Ecommerce Sales, Products, Listings, Pricing, and Marketing Campaigns.
- Implemented Logistics Operations, and Inventory Management Automations.
- Designed, Developed, Tested, and Launched the new Ecommerce website frontend [brillancelaserinks.com](http://brillancelaserinks.com)
- Attended trade shows to clearly describe the company's products and establish connections
- Administered on-site and remote: Domain, Nas, Access Points, Routers, Switches and PBX.

**Source Direct Inc** – Cinnaminson, NJ

Full Time - **07/2021 – 08/2023**

*Director of Operations*

**Hour Per Week: 40**

- Designed, developed, and implemented an ERP & Inventory System - Automating & removing User errors
- Designed, developed, and implemented Order Processing System for Logistics and Order Processing Team
- Reduced Labor Costs by 20% by Automating Logistics and Operations daily tasks via API integration,
- Reduced Cost by 80%, while moving VoIP Server to AWS EC2 while adding multi-site and remote users (home)
- Designed, developed, tested, deployed, and presented SOPs and Company Guidelines for my Operations Team
- Administered Google Workspace Email and Chat for multiple domains, implemented SSO
- Device Procurement Laptops, Monitors, Printers, Computers

**sipIQ** –Fair Lawn, NJ

Full Time - **01/2019 – 07/2021**

*Network and Support Specialist Intern*

**Hours Per Week: 40**

- Provided customer support via email, phone, and tickets via AutoTask
- Administered Multi-Site Phone System Monitoring using CentOS, Nagios, and OpenVPN.
- Configured and deployed servers, Access Points, VOIP Phones, and Switches and Routers on-site
- Automated VoIP Phone BLF Key Programming XML file creation per user customization

**Staples** – Oakland, NJ

Part Time - **08/2017 – 10/2018**

*Tech Sales Associate*

**Hours Per Week: 32**

- Promoted to Staples Tech Repair Expert for software and hardware on desktop computers.
- Incentivized Calculator and Laser Printer Sales - Employee of the Month
- Mastered Staples Proprietary Inventory Management System

## **PROJECTS:**

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### **Systems Integration** | [github.com/stonX-IT490](https://github.com/stonX-IT490)

- Integrated backend using RabbitMQ and PHP to pass SQL queries between servers for easy scalability.
- Created deployment scripts using Bash to quickly deploy virtual machines.
- Wrote a front end in HTML and PHP using Bootstrap to create a responsive view.
- Setup NGINX to serve front end and load balance web server instances.
- Setup development, QA, and production VM clusters with code deployment
- Setup a DMZ server to communicate with APIs

### **Smart Home - HomeAssistant**

- Open-source home automation that puts local control and privacy first.
- Flashed ESP8266 and ESP32 IoT devices
- Integrate APIs to control IoT devices from one unified application
- Developed and integrated automations via yaml scripts.

### **Ecommerce Store**

- Designed, developed, and launched an ecommerce store from scratch.
- Researched products and created listings
- Created Blog Posts and social media marketing
- Used business analytic tools to present and implement improvements to the online shopping experience.

## REFERENCES:

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- Bhavesh Thakrar, (609) 932-4725, [bthakrar@sourcedirectinc.com](mailto:bthakrar@sourcedirectinc.com)
  - o Principal of Source Direct Inc.
  - o Worked closely with Bhavesh as the Director of Operations in multiple meetings a week to automate many repetitive tasks as well as implement new methods from the ground up to improve workflow of the Operations Team. I had weekly meetings with my operations team as well training sessions with each individual on how to use my new ERP system. I also managed anything IT related such as Domains, Emails, etc...
- Ramneesh Prabha, (732) 692-3192, [rprabha@ups.com](mailto:rprabha@ups.com)
  - o Sr. Software Developer & IT Manager at UPS
  - o Worked under Ramneesh's supervision as a Software Project Manager to lead a team to build a web application that manages and automates configuration of multi-site servers that run the UPS backend infrastructure. Attended Daily scrum meetings and presented regularly to the team while maintaining a positive relationship with the team and the stakeholders as well as making sure our project was on budget and within the timeline promised.
- Dr Cristian Borcea, (973) 596-2866, [borcea@njit.edu](mailto:borcea@njit.edu)
  - o SFS program supervisor at NJIT, Computer Science Professor
  - o As one of the SFS program supervisors at NJIT, I meet with Dr. Borcea on a regular basis and report my academic progress and SFS related activities.

# Amanda Vogt

37 Elinora Drive, Wanaque, NJ 07465  
(973) 934-3889 | amv27@njit.edu

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**Date available to begin internship:** May 2024

## SUMMARY STATEMENT

CyberCorps SFS Scholar at New Jersey Institute of Technology who plans to pursue a career in cybersecurity.

## EDUCATION

NSF CyberCorps SFS Scholar, September 2022 – December 2024

### **New Jersey Institute of Technology, M.S.**

Newark, NJ (07103)

Expected Graduation: December 2024

GPA: 4.0

Major: Information Technology Administration and Security

Relevant Coursework: Computer Security Auditing, Systems Administration, Wireless Networks Security and Administration

### **New Jersey Institute of Technology, B.S.**

Newark, NJ (07103)

September 2020 – December 2023

GPA: 4.0

Major: Information Technology with a specialization in Network and Information Security

Relevant Coursework: Computer Systems Security, Introduction to System Administration, Digital Crime, Internet Applications, Database Design Management and Applications, E-commerce Technology, Introduction to Network Technology, Advanced Programming for Information Technology, Information Design Techniques, Ethical Hacking for System Administrators, Privacy and Information Technology, Systems Integration

## ACHIEVEMENTS

**Dean's List**, Fall 2020 – Fall 2023

New Jersey Institute of Technology, Newark, NJ

## PROFESSIONAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, HTML, PHP, C#, CSS, SQL
- **Data Management:** SQL
- **Operating Systems:** Windows, Linux
- **Tools:** Microsoft Suite, Google Workspace, Kali Linux, Docker, Git, GitHub, Visual Studio Code, VirtualBox, phpMyAdmin, Cisco Packet Tracer

## WORK EXPERIENCE

**Student Trainee, Information Technology**, May 2023 – August 2023

**United States Space Force**, Pentagon, Arlington, VA

*Worked within the Chief Technology and Innovation Office (CTIO), Headquarters United States Space Force, alongside military, civilian and contracted Information Technology Specialists to solve problems regarding the implementation of the Chief of Space Operations' Vision for a Digital Service and Space Power Doctrine for the United States Space Force. Collaborated to solve problems that directly affected CTIO mission. Served within CTIO's Analysis Directorate (S9) on a Science and Technology Budget Trend study analyzing funding of space-related projects utilizing 10-years of Presidential Budget data covering all DoD services. Authored SQL queries to clean, process, and filter budget data for use in analysis and analytic visualization tools. Designed data repositories and*

*analytic dashboards for use in the cloud-based platform, Envision, to house budget data, validate and data mine the applicable space budget, and develop interactive dashboards for use by CTIO's Operations Research Analysts. Analyzed results and modified the interactive dashboard to assist the United States Space Force Chief Scientist in promoting the importance of continuing to fund space-related research projects to ensure the United States Space Force is able to meet current and future mission requirements.*

**Team Member**, July 2021 – August 2022

**Target**, Riverdale, NJ

*Fulfilled pick-up/drive-up orders accurately within the time allotted. Promoted the advantages of RedCard and made the application process easy for customers. Worked hard to learn the required tasks for each position quickly in order to maximize performance. Provided extraordinary customer service in order to improve the customer experience. Represented the company positively while on the job.*

**Target Tech Representative**, May 2021 – July 2021

**MarketSource**, Riverdale, NJ

*Assisted people with phone setups (specifically with the companies Consumer Cellular and AT&T). Sold phone plans to customers. Helped customers find the phone accessories that they needed. Worked the tech department cashier register. Suggested products and technology upgrades to customers to improve overall security and experience. Resolved customer disputes to maintain positive relationships. Enforced store policy to keep things running smoothly. Prevented theft to protect the store's assets.*

### **VOLUNTEER EXPERIENCE / COMMUNITY SERVICE**

- **Safety Town Counselor**, July 2018  
Wanaque, NJ  
Taught children their phone numbers, addresses, and the rules of safety.
- **Camp Invention Counselor**, July 2017  
Bloomingdale, NJ  
Taught children about different aspects of science and helped watch them during different activities and guided them.
- **Animal Shelter Volunteer**, August 2017  
West Milford, NJ  
Helped take care of the shelter dogs.

### **ADDITIONAL INFORMATION**

SFS Cybersecurity student eligible for non-competitive appointment - Public Law 113-274, Section 302

### **REFERENCES**

**Name:** Vincent Oria

**Employer:** New Jersey Institute of Technology

**Title:** Professor, SFS Program PI

**Email Address:** vincent.oria@njit.edu

**Name:** Ryan Tolboom

**Employer:** New Jersey Institute of Technology

**Title:** Professor

**Email Address:** ryan.tolboom@njit.edu

**Name:** Dipesh Patel

**Employer:** New Jersey Institute of Technology

**Title:** Professor

**Email Address:** dipesh.patel@njit.edu

# Beck Gozdenovich

NSF Scholarship for Service CyberCorps program participant

bag27@njit.edu | 973-600-5035

**Country of Citizenship:** United States of America

**Availability:** Job Type: Entry Level

Work Schedule: Full Time Starting June 2024

**Desired Locations:** US – New Jersey, New York, Maryland, Virginia, Washington, D.C., California, North Carolina, Massachusetts, Hawaii

## Work Experience:

**Lawrence Livermore National Laboratory – Livermore, CA**

**06/2023 – 08/2023**

*C3SI Graduate Cyber Intern*

**Hours Per Week: 40**

- Spearheaded the development of a database for the CISA National Risk Management Center (NRMC) sponsored CasCon+ project.
- Designed and implemented a system to spin up a local MongoDB database using Docker images/containers and Visual Studio development containers.
- Wrote Python scripts to initialize the locally instantiated database and seed it with data from static JSON files.
- Coded a command line interface for performing create, read, update, and delete (CRUD) operations on the data.
- Developed a workflow for exporting the local database to seed files and pushing the updated seed files to GitLab.
- Worked with the project team to refactor and reorganize the data so that it was in a uniform structure and compatible with the database, as well as being modular and expandable.
- Met with the team weekly to discuss design options and report progress.

**Selective Insurance Company of America – Branchville, NJ**

**05/2022 – 08/2022**

*IT Security Intern*

**Hours Per Week: 37.5**

- Operated as team lead for an intern project in which we developed a user experience dashboard in Microsoft Azure using AppInsights and KQL.
- Successfully presented our finished intern project to the multi-billion dollar company's executive team (CEO, CIO, CFO, SVPs, etc.) and had our recommendations implemented.
- Investigated and categorized potential phishing emails by analyzing links or attachments in the email, the sender's IP address, and various other attack indicators.

- Provisioned shared mailboxes and gave users access to them through the use of PowerShell and Active Directory.
- Created Active Directory groups and added users to them in order to grant privileges.
- Examined and discussed daily relevant cybersecurity news in order to assess and proactively respond to any potential threats, as well as debrief executive teams.

## **Education:**

**M.S., New Jersey Institute of Technology** – Cyber Security and Privacy

Newark, NJ

**GPA:** 4.0/4.0

**Expected Graduation:** 05/2024

**Affiliations:** NSF Scholarship for Service CyberCorps program, NJIT Division One Men's Lacrosse

**Relevant Coursework:** Database Design, Counter Hacking Techniques, Internet and Higher Layer Protocols, Web Development, Cryptography and Security, Security and Privacy in Computer Systems

**B.S., New Jersey Institute of Technology** – Computer Engineering

Newark, NJ

**GPA:** 3.78/4.0

**Graduated:** 05/2023

**Affiliations:** NSF CyberCorps Scholarship for Service program, NJIT Albert Dorman Honors College, NJIT Division One Men's Lacrosse

**Relevant Coursework:** Wireless Communication Systems, Computer Communications Networks, Digital Data Communications, Computer Organization and Architecture, Principles of Operating Systems, Discrete Analysis for Computer Engineers, Signal Transmission, Programming Language Concepts, Digital Design

## **Projects:**

**Simple Bank Web Application**

**Spring 2023**

- Developed a simple bank web app where users can create a profile, open a checking account, deposit, withdraw, and transfer money internally between accounts or externally to another user's account.
- Coded backend framework in Python using Flask and virtual environments.
- Backend code interacted with a Structured Query Language (SQL) database that held all account, user, and transaction information.
- Wrote frontend code in HyperText Markup Language (HTML) with the help of Bootstrap 5 framework.
- Reaffirmed concepts of authorization and authentication by having a login page where only registered users could authorize and login, as well as an administrator account that was authorized for more advanced settings within the application.
- Used proper data ingestion methods to avoid dangerous vulnerabilities, such as SQL injection.
- Deployed production application to Heroku servers.

## **Instantaneous Concussion Detector (ICD) for Impact Sports**

**Fall 2022**

- Chosen for senior design showcase.
- Researched and proposed a 30 page report detailing a device designed to detect concussions that occur in impact sports in real time.
- Fabricated the device by leveraging an Arduino, an accelerometer, and a rechargeable battery to measure impacts taken to the head by a player.
- Accelerometer continuously reads acceleration in g's and sends data to the Arduino. When the acceleration surpasses a determined threshold, a string is sent to a mobile phone application via Bluetooth Low Energy.
- The device is securely mounted to the helmet of the player via velcro.
- Developed the hardware code in the ArduinoIDE using Arduino's programming language. The application (both frontend and backend) was developed using MIT's AppInventor.

## **Lexical Analyzer, Parser, Interpreter**

**Spring 2021**

- Developed a lexical analyzer, parser, and interpreter over the course of a semester that were able to access files and analyze text to interpret a made up programming language.
- Gained experience in C++ and intensive knowledge of how programming languages work behind the scenes.

## **4-Bit Reverse Polish Notation Calculator**

**Fall 2021**

- Designed and built a 4-bit calculator using various logic chips such as 16x4 RAM chips, shift registers, ALUs, decoders, multiplexers, and binary logic chips.
- Developed a control unit and control table that follows an instruction cycle which allowed the calculator to perform calculations and store results in the RAM chip.
- Learned valuable lessons in perseverance and the engineering lifecycle.

## **SQL Database**

**Spring 2022**

- Provisioned a public SQL server on MySQL.
- Developed an ER diagram based on assigned criteria and created tables in 3NF to match the diagram.
- Used PopSQL to interface with the database in order to create tables, populate them with data, and write queries to access the data.

## **Technical Skills:**

- **Operating Systems:** Windows, Linux
- **Languages:** Python, C++, KQL, SQL
- **Tools:** Docker, MongoDB, Git, Visual Studio, Active Directory, MATLAB, Wireshark
- **Strengths:** Communicative, Competitive, Coachable, Fast-Learning, Dependable, Passionate

## **Extracurricular Activities:**

### **NJIT Division One Men's Lacrosse - Defensive Midfielder**

**09/2019 – Present**

- Played meaningful time in every competition barring injuries.



- Enhanced and sharpened my leadership and teamwork skills through learning from my own mistakes, as well as others.
- Instilled discipline by never missing a game/practice/meeting aside from sickness.
- Participated in the America East conference.

**NJIT Student Athlete Advisory Committee (SAAC) – Treasurer**

09/2021 – 05/2023

- Managed the Highlander Cup in which NJIT's athletic teams compete against each other and earn points by performing well in their respective sports as well as contributing to the Newark community.
- Supported the committee's community service efforts such as Food Frenzy in which schools in the NCAA America East conference collect food and toiletries for local food pantries.
- Act as a liaison between student-athletes and administration.

**NJIT Leadership Academy – Appointed Member**

09/2019 – 05/2023

- Participated in seminars aimed at enhancing the leadership skills of student-athletes.

**References**

**Chel Samuels, PhD**

- 404-276-0052
- samuels5@lnl.gov

**Marton Demeter**

- 650-862-1458
- demeter1@lnl.gov

**Robert McKenna**

- 973-948-1489
- robert.mckenna@selective.com

**James Ashley**

- 862-273-6780
- james.ashley@selective.com

**Libby Winzeler**

- 612-414-0999
- libby.winzeler@selective.com

# Daniel Marriello

(973) 202-7114 | dcm45@njit.edu

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**Country of Citizenship:** United States of America

**AVAILABILITY:** Job Type: Summer 2024 Internship  
Work Schedule: Full Time Starting January 2025

**OBJECTIVE:** Outgoing and quick-learning Scholarship for Service participant seeking summer internship in cybersecurity in a governmental agency

## WORK EXPERIENCE:

**NJIT Ying Wu College of Computing** – Newark, NJ **05/2022 – 08/2022**  
*Office Assistant* **Hours Per Week: 20**

- Supported general operation of the office including phones, emails, and in person appointments, also helped with special projects

## EDUCATION:

**M.S., New Jersey Institute of Technology** – IT Administration and Security Newark, NJ  
**GPA:** 3.7/4.0 **Expected Graduation:** 12/2024  
**Affiliations:** NSF CyberCorps Scholarship for Service program  
**Relevant Coursework:** System Administration, Database Administration, Internet and Higher-Layer Protocols

**B.S., New Jersey Institute of Technology** – Information Technology Newark, NJ  
**GPA:** 3.7/4.0 **Graduated:** 12/2023  
**Affiliations:** NSF CyberCorps Scholarship for Service program  
**Relevant Coursework:** Linux Administration, Ethical Hacking, Building Web Applications, Systems Integration, Programming Language Concepts

## TECHNICAL SKILLS:

- Operating Systems:** Windows, Linux
- Languages:** Java, C#, C++, PHP, CSS, HTML, SQL, JavaScript, Python
- Tools:** FTK Imager, Docker, Git, Kubernetes

## PROJECTS:

### PCTIBANDS OUTREACH PROJECT

07/2019 – Present

- Built a website from scratch for the music department at Passaic County Technical Institute
- Updating the website and social media accounts simultaneously <https://pctibands.org>

### FULL STACK SIMULATION PROJECT

01/2023 – 05/2023

- Developed secure database transactions using hashed passwords and protecting against SQL injections
- Created a custom deployment server with rollback capabilities using PHP, SSH keys, and tarballs

## EXTRACURRICULAR ACTIVITIES:

### NJIT Society of Musical Arts – Wind Ensemble Member

09/2021 – Present

- Practiced weekly with the band, working with other members of the section to split up roles based on preferences and strengths of each player, building up to one concert each semester

### NJIT Society of Musical Arts – Pep Band Member & Co-Leader

09/2021 – Present

- Communicated with Spirit Squad coordinators and practiced with other members, performing weekly

### NJIT Esports – Splatoon 3 Team Member & Leader

09/2022 – Present

- Practiced weekly with team members, competing in a collegiate tournament every semester, organized new players when former members graduated

### NJIT Information and Cybersecurity Club – Member & Senior Hacker

08/2023 – Present

- Competed in Capture the Flag (CTF) style competitions under one of the clubs' teams, regularly attended club meetings, developed challenges for October 2023's SpookyCTF

## AWARDS

- SFS CyberCorps Scholar
- JerseyCTF III Student Division 3<sup>rd</sup> Place Winner, top 10 overall
- Top 50 team overall in BYUCTF 2023
- 1st Degree Decided Black Belt in Martial Arts
- NJIT Academic Excellence Scholarship

## REFERENCES:

- Reference 1: Judith Bassford, 973-418-8031, [judithbassford@gmail.com](mailto:judithbassford@gmail.com)
- Reference 2: Nelson Mendez, 973-800-5428, [nmendez@pcti.tec.nj.us](mailto:nmendez@pcti.tec.nj.us)
- Reference 3: Dr. Ali Mili, 973-596-5215, [mili@njit.edu](mailto:mili@njit.edu)

# Jillian Jacinto

jmj4@njit.edu | (732)-215-8768

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**Country of Citizenship:** United States of America

**AVAILABILITY:** Job Type: Summer 2024 Internship  
Work Schedule: Full Time Starting June 2025

**Desired Locations:** US – New Jersey  
US – New York  
US – Washington, D.C.  
US – Maryland  
US – Virginia  
US – California  
US – Hawaii  
US – Washington

## EDUCATION:

**NSF CyberCorps SFS Scholar:** 09/2023 – 05/2025  
**Albert Dorman Honors College:** 09/2020 – 05/2024

**M.S., New Jersey Institute of Technology** – Cyber Security and Privacy Newark, NJ  
**GPA:** N/A **Expected Graduation:** 05/2025  
**Relevant Coursework:** CS656 Internet and Higher Layer Protocols, CS610 Data Structures and Algorithms

**B.S., New Jersey Institute of Technology** – Computer Science Newark, NJ  
**GPA:** 3.621/4.0 **Expected Graduation:** 05/2024  
**Relevant Coursework:** CS356 Intro to Computer Networks, CS351 Intro to Cybersecurity, CS491 Senior Computer Science Project, CS490 Guided Design in Software Engineering, CS288 Intensive Programming in Linux

## WORK EXPERIENCE:

**Daktronics** – Brookings, SD (Remote) **05/2022 – 08/2023**  
*Software Design Student Intern* **Hours Per Week:** 40 (summer), 15 (during semesters)

- I worked closely with front-end developers on the Processors Software team and the UX Core Team.
- I participated in updating the UI for different apps in response to user feedback using C#, XML, JavaScript, MDX, HTML, and CSS.
- I previously ran test cases on software and hardware to ensure their quality and to find any bugs. This included using PuTTY and other tools to remotely log onto on-site computers.

## TECHNICAL SKILLS:

- **Operating Systems:** Windows, Linux
- **Languages:** Java, Python, JavaScript, C++, C#, C, HTML, CSS
- **Tools:** GitHub, DevOps, Kali, Wireshark, Metasploitable

- **Strengths:** Strong communication skills, leadership experience, public speaking, fast learner

## PROJECTS:

### New Jersey Judiciary: Notice of Translation Service

09/2023 – 12/2023

- Served as the Project Manager for my NJIT YWCC Senior Capstone
- We used Pega to build a web application that translates documents from English to different languages spoken in New Jersey.
- Called AWS Translation API to handle the document translations.

### Two Factor Authentication Project

10/2023 – 11/2023

- Assignment for CS656: Internet and Higher Layer Protocols
- Used Java Socket programming to connect a server and client that communicated to create a two-factor authentication application.
- The first part of the assignment was to initiate the socket connection to set up the project and have a one-time password generator. The second part was to implement our first project to a web application that our professor had created.

### *CrushedIt*

01/2023 – 05/2023

- Semester long project for CS490: Design in Software Engineering
- Used JavaScript, RedwoodJS, and VS Code to make a time and task management system
- Worked with a team to add features to a core codebase in creation of a SaaS product in an Agile software development lifecycle.

### Ideal Pokémon Opponent Generator

10/2022 – 12/2022

- Final Project for CS370: Introduction to Artificial Intelligence
- Used a Python Apriori Algorithm to predict the best opponent against a Pokémon using data from the 2022 Pokémon Sword and Shield World Championships and base stat comparisons.

### *Quake II* Game Modification

11/2021 – 12/2021

- Final Project for IT266: Game Mod Development
- Used GitHub and Windows Visual Studio in C to modify *Quake II*
- Recreated basic mechanics of Slime Rancher in *Quake II*

## EXTRACURRICULAR ACTIVITIES:

### NJIT Kids Who Code – President

10/2022 – Present

- Leading a club that teaches kids in Newark elementary schools programming in Scratch and exposes them to computer science.
- Managing the club's Executive Board and maintaining an efficient workflow behind the scenes
- Organizing meetings and communicating with elementary schools about setting up after school lessons
- Was previously the Event Coordinator (Oct. 2021 – Oct. 2022)

### NJIT Information and Cybersecurity Club

01/2023 – Present

- Attending club meetings and speaker events to learn more about cybersecurity and relevant technology.
- Participating in CTFs with the Clocktower Dwellers team from NICC.
- Attended JerseyCTF III and completed several challenges, mainly in cryptography and OSINT.

### NJIT Student Activities Council

09/2021 – Present

- Helping run events for the NJIT undergraduate community, like the Spring Carnival, Halloween Spooktacular, and Winter Wonderland
- Active general body member and volunteer at events

## **REFERENCES:**

- Danielle Scheff, (605)-692-0200, Danielle.Scheff@daktronics.com
  - Engineering Supervisor at Daktronics
  - Was my supervisor during my internship at Daktronics
- Cristian Borcea, (973)-596-2866, borcea@njit.edu
  - NJIT Professor, Computer Science
  - Associate Dean for Strategic Initiatives
  - SFS program supervisor
- Fuad Hamidli, (973)-596-3387, fuad.hamidli@njit.edu
  - NJIT University Lecturer, Computer Science
  - I studied under Professor Hamidli in his CS351: Introduction to Cybersecurity course

# Logan DesRochers

Ld292@njit.edu | 908-400-0488 | linkedin.com/in/logan-desrochers-6a9081195/

34 Hillcrest Avenue Cranford, NJ 07016

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**Citizenship:** United States of America

**Clearance:** Civilian

**OBJECTIVE:** Scholarship for Service participant seeking Cybersecurity internship for Summer 2024.

## **EDUCATION:**

NSF CyberCorps SFS Scholar: 9/2023 -12/2024

**M.S. Cyber Security & Privacy** – New Jersey Institute of Technology, Newark, NJ

- Expected Graduation Date: 12/2024
- GPA: 4.0
- Relevant Courses: Security & Privacy, Cryptography, Counter Hacking Techniques, Internet & Higher Layer Protocols, Network Management & Security, Data Management System Design

**B.S. Computer Science & Information Technology** – New Jersey Institute of Technology, Newark, NJ

- Graduation Date: 05/2023
- GPA: 3.77
- Honors: Albert Dorman Honors Scholar, Magna Cum Laude
- Relevant Courses: Cybersecurity, Ethical Hacking, Systems Integration, Database System Management, Operating Systems, Programming Language Concepts, Internet Applications, Computer Systems and Networks, Software Engineering, Computer Programming

## **EMPLOYMENT HISTORY:**

### **United Parcel Service**

**340 MacArthur Blvd, Mahwah, NJ 07430**

#### **Information Security Analyst Intern**

**(\$38/hr, 40hr/week) June 2023 – August 2023**

Working with a dedicated team of Security Analysts on the External Email Team, learned essential protocols of email security including SPF, DKIM, and DMARC. Designed management tools and automated spreadsheets that track the progress of an ongoing initiative to upgrade company-wide email encryption to the TLSv1.2 standard. Led research investigating the firewall rules in email security vendor systems to remove and update outdated rules.

- UPS' email security vendor-generated weekly reports on each unique connecting hostname sending unencrypted email traffic. Processed these generated reports, creating Smartsheets to track the changes in traffic week over week. Analyzed the servers and workstations associated with IP addresses in the processed reports to identify application teams responsible for unencrypted communications. Responsible application teams were informed of the steps to remediation, which included reprogramming applications to utilize SMTP TLSv1.2 and migrate traffic to a new VIP. Over 200 application teams identified and contacted from June to August. Weekly metrics on the state of the initiative were calculated and reported to Directors and Management.
- Analyzed firewall rules in UPS' email security vendor system, with the intention of identifying firewall rules that can be removed from the environment. This project was conducted in two environments, the Test Network and Production. Firewall rules removed included early development versions of rules, and rules preventing phishing campaigns related to no longer relevant political campaigns.
- Gathered information on issues brought to the team's attention by UPS employees. Primarily, employees reported legitimate recipients being blocked by the firewall, and investigations were conducted to determine the safety and legitimacy of the blocked parties. DMARC policies of the blocked parties were a key factor used in evaluation.
- Renewed Digital Certificates for web tools the team used weekly to secure UPS email communications. TRAP (Threat Response Auto-Pull) and TAP (Targeted Attack Protection) were the tools which had their certificates renewed.

### **Black Rocket Productions**

**37 Court St, Freehold, NJ 07728**

#### **Senior Information Technology Support**

**(\$15/hr, 40hr/week) May – August 2020, 2021, 2022**

Black Rocket Productions is a children's STEM camp provider, that delivers in-classroom and online educational programs across the United States. During the Summer of 2020 I helped develop and test new online classroom procedures as the company adapted their offerings to a virtual environment. As the Senior IT Support member, I trained new members of the support team, interacted directly with classroom instructors, and assisted campers in creating digital projects.

- Remotely connected to customer computers to troubleshoot issues with hardware and software necessary for camp participation. Also, remotely assisted instructors in the classroom to live



troubleshoot technical issues that arose during camp instruction time. Course topics supported included C#, Unity, JavaScript, and Python.

- Developed a new curriculum about developing projects on Raspberry Pi computers for children ages 12 to 15. Curriculum Projects included modding Minecraft in Python, programming a stop-motion video camera, and navigating Linux operating systems. Presented the curriculum to the CEO and Management, which included lesson plans, alternative projects, and business cost estimates.

## **Cranford Webmaster Team**

**201 West End Pl, Cranford, NJ 07016**

### **Senior Webmaster & Teacher's Assistant**

**(\$0/hr, 10hr/week) September 2017 – June 2019**

Managed a team of students that utilized HTML, CSS, and JavaScript to maintain and update the Cranford High School website. The site was maintained with accurate information year-round and as was sometimes changed urgently based on information from school administration.

- Led the team in a month-long design overhaul to streamline future maintenance of the site's navigation using Server Side Includes. Before the upgrade to Server Side Includes, the navigation for the over 100 webpages had to be updated manually on each page. Server Side Includes store the navigation of the website in just one HTML file, and the webserver copies the contents of the navigation to every other specified webpage. Reducing the task of updating over 100 HTML files to updating 1 HTML file.
- While managing the Webmaster Team, I also helped lead the Web Design II course at the High School. I led a group of 5 students through web design principles including UI and UX design, HTML, CSS, and JavaScript. The students under my mentorship were well prepared to join the Webmaster Team the following year.

## **SKILLS SUMMARY:**

- **Programming Languages:**
  - C, C++, Java, JavaScript, NodeJS, Python, PHP, BASH
- **Security:**
  - Proofpoint, DMARC, RSA, Elliptic Curve, GDB Analysis, CIA Principles
- **Networking Technology:**
  - Windows(10,7), Debian, RabbitMQ, VirtualBox
- **Web Development:**
  - HTML/CSS, JavaScript, NodeJS, PHP, MySQL
- **Project Management:**
  - Git, SCRUM, Trello, Servant Leadership, Tutoring

## **ACCOMPLISHMENTS:**

- **Developed Challenges Capture the Flag Competitions in 2023:**
  - Developed 4 cryptography challenges for the international cybersecurity event JerseyCTF 2023 hosted by NJIT. Challenge topics included Elliptic Curve encryption, RSA encryption, and String Encoding. The Elliptic Curve and RSA challenges were developed for the 'Hard' challenge tier and were only successfully solved by 12 teams out of approximately 700 worldwide.
  - Developed 2 challenges for SpookyCTF 2023 hosted by the NJIT Information & Cybersecurity Club. Challenge topics included Elliptic Curve encryption and Playfair encryption.
- **Project Manager of First Place NJIT Senior Capstone**
  - Served as project manager of the winning Capstone Enterprise team of the NJIT Senior Capstone Project. Managed a team of 4 developers as we implemented SCRUM methodologies to design a website and Discord bot that would communicate with one another through a shared MySQL database. Our solution demonstrated the most helpful improvement to the year-round management of the NJIT Capstone. Recognized by the capstone judges for excellent project management and presentation skills.
- **Comic Book Collection Website**
  - With a team, created a Comic Book Collection website built off a data-driven backend. Responsible for designing the PHP handler for the MySQL database, writing SQL queries, integrating external API calls for procedural data collection, and the RabbitMQ message broker to manage communication between systems. System existed over a series of Linux VirtualBox instances, including Development, QA, and Production clusters controlled by a Deployment System.
- **Communication + Presentation**
  - Recognized as a highly skilled presenter by peers and upper management during the summer 2023 UPS Information Security internship.

## **HONORS & AWARDS:**

- SFS Cyber Corps Scholar
- NJIT Information & Cybersecurity Club Senior Hacker
- Undergraduate Magna Cum Laude
- Dean's List 2019-2023
- NJIT Honors Scholarship
- NJIT Academic Excellence Scholarship
- BSA Eagle Scout Award

## REFERENCES FOR LOGAN DESROCHERS:

- Magaly Sanchez; magalysanchez@ups.com, 551-264-3147
  - External Email Team Lead at UPS
  - Worked closely under Magaly's supervision as a member of the External Email Team in UPS' Information Security department. Contributed to the organization and development of a company wide security initiative, attended weekly team meetings, and presented my work to the team.
- Michael Jubina; mike@blackrocket.com, 732-784-7276
  - Director of Technology at Black Rocket Productions
  - Collaborate daily with Mike over multiple summers to lead the support team in delivering clear and helpful technical assistance.
- Richard Bell; bell@cranfordschools.org, 973-943-1119
  - Computer Science Teacher at Cranford High School
  - Mentored under Richard on the Webmaster Team to learn project management and team-building skills. Inspired me to pursue a career in technology and security.
- Dr. Cristian Borcea; borcea@njit.edu, 973-596-2866
  - SFS program supervisor and Professor at NJIT
  - As a program supervisor, I report my academic progress and SFS-related activities to Dr. Borcea regularly.
- Dr. Fuad Hamidli; fuad.hamidli@njit.edu, 732-515-8787
  - Cyber Security Professor at New Jersey Institute of Technology
  - Actively participated and studied in both of Dr. Hamidli's graduate cybersecurity courses. Programmed elliptic curve encryption algorithms in his Cryptography & Security course and performed hash table attacks in his Security & Privacy course.

# Patrick Krawczyk

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**CITIZENSHIP:** United States of America

**OBJECTIVE:** Scholarship for Service participant seeking an internship for summer 2024.

**AVAILABILITY:** Job Type: Summer 2024 Internship  
Work Schedule: Full Time Starting May 2024

**DESIRED LOCATIONS:** US – Maryland  
US – Virginia  
US – Washington, D.C.  
US – New Jersey  
US – New York  
US – Hawaii

## **EDUCATION:**

**NSF CyberCorps SFS Scholar:** 09/2023 – 05/2025

**M.S. Cybersecurity & Privacy** - New Jersey Institute of Technology, Newark, NJ

Graduation Date: 05/2025

GPA: 3.8

- Relevant Courses: Security & Privacy in Computer Systems, Internet & Higher Layer Protocols, Operating System Design

**B.S. Computer Science** - New Jersey Institute of Technology, Newark, NJ

Graduation Date: 12/2022

GPA: 3.8

- Honors Scholar
- Full Tuition Merit Scholarship
- Magna Cum Laude
- Relevant Courses: Introduction to Cybersecurity, Intro To Computer Networks, Principles Of Operating Systems, Advanced Data Struct-Alg Des, Intensive Programming in Linux, Foundations in Computer Science, Intro to Computer Systems, Internet Applications

## **CERTIFICATIONS:**

- **CompTIA Security Plus - Expected Completion May 2024**
- **CISCO IT Essentials**

## **RECENT CYBERSECURITY COMPETITIONS:**

### **Team: Clocktower Dwellers**

- Ranked in the Top 3% of US Teams and Top 6% Globally in 2023

### **JerseyCTF II/III**

- Solved Cryptography, Network Analysis, and Reverse Engineering Challenges
- Learned and Used Tools such as Ghidra, Wireshark, Burp Suite, Hashcat

### **DownUnder CTF 2023**

- Reversed Python Encryption Algorithms
- Solved Cipher, Buffer Overflow, and OSINT Challenges

## **SKILLS SUMMARY:**

- Kali Linux:
  - Metasploit, Nmap, Netcat, Social Engineering Toolkit, other miscellaneous vulnerability scanners
    - Used in CTF challenges to assess cyber-posture, conduct vulnerability scans, mitigate risk, and analyze attack surfaces
  - Hydra, John the Ripper
    - Cryptography tools to crack passwords
- Azure Data Explorer, Ghidra, Binwalk
  - Completed computer forensic analysis and attributed actions to an attacker
- Networking Technology:
  - TCP Dump, Wireshark, Burp Suite, VirtualBox
- Cloud Computing Services:
  - Azure AD, AWS, Google Cloud Platform
- Web Development:
  - Linux, Apache, MySQL, PHP My Admin, MongoDB

- IT Support
  - Windows updates and recovery
  - Hardware updates and PC Building
- Programming Languages:
  - C++, Python, Bash, PHP, SQL, Java, HTML, CSS, JavaScript, C#
- Presentations:
  - Explained technical details of the latest emerging cyber security threats.
  - Proposed solutions to the exploited vulnerabilities.

## **EMPLOYMENT HISTORY:**

### **Computer Generated Solutions, Associate Project Manager, Summer 2022 40hrs/week**

Worked alongside the lead Project Manager to plan and deploy infrastructure and software which support a wide range of services for Healthcare, Finance, and Fashion industries. After initial training, I was assigned my own projects to deploy.

- Created infrastructure deployment plans and resource allocations.
- Led a team of Azure Cloud Developers through the deployment of infrastructure and PLM software.
- Communicated with stakeholders and managed a team as part of the Agile Development process.

## **PROJECTS:**

### **Duo MFA Application**

- Built a Java Multi-Factor Authentication applet similar to Duo's hardware tokens. Designed an HMAC communication protocol between a local token generator and web application.

**Skills:** Java, Networking Technology, TCP and other protocols

### **United Parcel Service (UPS) Capstone Project – Common Messaging Responsive UI**

- Developed a secure data analytics application for hundreds of internal UPS IT employees to view data transfers between global UPS servers, facilities and warehouses

**Skills:** Project Management, Full Stack Development, Data Security, C#, .NET

### **NJIT Student Schedule Generator**

- Scraped course information from the NJIT website and generated optimal schedules using student preferences, such as preferred dates, times, and professor ratings

**Skills:** PHP, Bash, Python, JavaScript

### **Euler Fluid Simulation**

- Simulated movable 2D objects in a wind tunnel using Three.js
- Demonstration available at <https://pk577.github.io/AirSim/smoke.html>

**Skills:** JavaScript, Git

### **Heart Disease Detection Machine Learning Algorithm**

- Used Random Sampling, Decision Trees, and Naive Bayes algorithms to develop a prediction model based on a health assessment to detect heart conditions in

**Skills:** Python, NumPy, Pandas, Matplotlib, SkLearn, Machine Learning

### **ACCOMPLISHMENTS:**

- Served as the project manager of the second place team from NJIT's Spring 2023 Capstone. Our presentation of the developed web application and live demonstration showed an updated and reliable solution for our network analysis and management application.

### **HONORS & AWARDS:**

- SFS Cyber Corps Scholar
- Undergraduate Magna Cum Laude
- NJIT Honors Full Tuition Merit Scholarship
- NJIT Academic Excellence Scholarship

## **EXTRACURRICULARS:**

### **NJIT Information & Cybersecurity Club (NICC), 2022-Present**

- Taught new members cybersecurity tools and skills
- Competed in weekly CTF competitions
- Attended monthly cybersecurity seminars to learn new skills and emerging technologies

### **Student Activities Council President, 2019-2023**

- Lead and managed a team of students to plan several hundred-person concerts, interstate trips, professional conferences, and large-scale social events
- Increased student involvement and event attendance through effective planning and advertisement
- Planned and coordinated collaborations between dozens of organizations for NJIT President's Inauguration

## **REFERENCES FOR PATRICK KRAWCZYK:**

- Ramneesh Prabha; rprabha@ups.com, 732-692-3192
  - Senior IT Manager at United Parcel Service (UPS)
  - Worked under Ramneesh's management in the development of my senior capstone project during my spring 2023 semester.
- Susan Reilly; sreilly@cgsinc.com, 646-371-0083
  - Project Manager at Computer Generated Solutions
  - Worked closely with Sue in the IT branch at CGS to plan and deploy projects to our clients. I was able to demonstrate my experience as a project manager and ability to rapidly learn to join the team.
- Senjuti Basu Roy; senjutib@njit.edu, 973-596-3662
  - Data Science Professor at NJIT
  - Studied under Professor Senjuti and completed advanced Data Science Projects for coursework. I continue to attend several of the special topics conferences she hosts to continue learning in the field.
- Dr. Cristian Borcea; borcea@njit.edu, 973-596-2866
  - SFS program supervisor at NJIT, Computer Science Professor
  - As one of the SFS program supervisors at NJIT, I meet with Dr. Borcea on a regular basis and report my academic progress and SFS related activities.