

# SAMUEL LEVSHTEYN

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## EDUCATION

New Jersey Institute of Technology | Newark, NJ

**M.S. in Cyber Security and Privacy (GPA: 3.75/4)**  
**Bachelor of Science - Computer Science, Minor in Applied Mathematics**  
Relevant Coursework: Security in Comp. Sys., Wireless Net Security, Higher Layer Protocols

September 2024 - December 2025  
September 2020 - May 2024

## EXPERIENCE

**MyFitPlate — Coding Intern**  
*Swift*

September 2024 - Present  
*Remote*

- Created and refined new Swift-based app screens based on UI/UX requirements, ensuring consistency across the app’s design.
- Collaborated with senior developers on front-end integration and participated in Agile rituals (daily standups, sprint planning) to deliver milestones on schedule.

**Honors Summer Research Institute**  
*Researcher, Presenter*

May - December 2023  
*NJIT*

- Developed a custom Bash script to automate the extraction of 300+ images from the Chicago Face Database.
- Created a Python script to randomly select a representative subset of facial images for testing, ensuring reliable analysis.
- Investigated background complexity in video conferencing, culminating in a formal presentation of findings.

## PROJECTS

**Buffer Overflow Exploitation**  
*VirtualBox, GDB, Bash*

February - March 2025  
*NJIT*

- Demonstrated a stack-based buffer overflow in a purposely vulnerable Linux application, analyzing disassembled code via GDB to locate critical offsets and overwrite the instruction pointer (EIP).
- Developed an exploit payload featuring a NOP sled and custom shellcode, temporarily disabling ASLR to ensure reliable execution and gain higher-privileged shell access for reading restricted data.
- Recommended mitigations (stack canaries, DEP, safer memory functions) and emphasized secure coding practices to prevent similar exploits in production environments.

**Linux Firewall Implementation Using pfSense**  
*VirtualBox, Ubuntu*

September - December 2024  
*NJIT*

- Designed and deployed a three-VM virtualized network in VirtualBox, integrating pfSense for a Linux-based firewall with rule-based traffic filtering, port forwarding, and ICMP blocking.
- Leveraged Snort for intrusion detection and prevention, proactively identifying and mitigating threats (e.g., port scans) while preserving SMTP and HTTP functionality.

**Startup Company - Project Manager**  
*Django, Heroku, Python*

January - May 2024  
*NJIT*

- Led a cross-functional team from ideation to production, employing SCRUM (weekly sprints) to deliver a fully functional web app and business concept on schedule.
- Deployed a Django server on Heroku, establishing a secure PostgreSQL AWS RDS database and API endpoints for third-party integration.

## LANGUAGES / TECHNOLOGIES

Languages: Python, Java, HTML, CSS, SQL, JavaScript, PHP  
Technologies: Django, UbuntuVM, KaliLinux, Git, Heroku

## EXTRACURRICULARS

**Public Speaking Club, Treasurer**

Fall 2022 - Spring 2024

- Managed budget and financial records for club events and activities. Collaborated with other club officers to plan and organize meetings and events.

**Table Tennis Team, Player**

Fall 2023 - Present

- Compete in intercollegiate tournaments. Practice and train regularly with team members.