

# YOSEF D. STIFANOS

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U.S. Citizen

## EDUCATION

### **University of Illinois at Urbana-Champaign**

<i>B.S. in Information/Data Science – Concentration: Cybersecurity</i>	<b>Urbana, Illinois</b>
	<i>Aug 2022 - Expected May 2026</i>
<ul style="list-style-type: none"><li>○ <b>GPA:</b> 3.88/4.00, 6x Dean's List, NSBE Chicago Scholarship Recipient</li><li>○ <b>Relevant Coursework:</b> Data Science 1&amp;2, Machine Learning, Risk &amp; Cybersecurity, Fundamentals of Information Security, Privacy &amp; Information Technology, Database Concepts and Applications, Cybersecurity Concepts &amp; Practices</li></ul>	

## EXPERIENCE

### **Freddie Mac**

<i>Technology Analyst</i>	<b>McLean, Virginia</b>
	<i>May 2025 – July 2025</i>

- Supported enterprise technology and cyber resilience efforts by planning and participating in tabletop exercises simulating cyber incidents, system outages, and recovery scenarios.
- Analyzed attack paths, system dependencies, and recovery impacts to identify resilience gaps and strengthen incident response and business continuity planning.
- Conducted research in support of Red/Green cybersecurity teams, contributing insights on adversary techniques, defensive controls, and resilience-focused improvements.
- Tracked and reported vulnerabilities using ServiceNow, supporting remediation workflows, risk reduction, and system availability and compliance.

### **The Grainger College of Engineering**

<i>Network &amp; Infrastructure Engineering Consultant</i>	<b>Urbana, Illinois</b>
	<i>April 2025 – Present</i>

- Led AV/IT support and digital signage deployment, applying network engineering expertise to ensure reliable operations.
- Managed IP address allocations with IPAM, ensuring accurate documentation and efficient enterprise network utilization.

### **Google**

<i>Cybersecurity Scholar</i>	<b>Remote, California</b>
	<i>Aug 2025 – Dec 2025</i>

- Selected for the Google Scholar Program, completing the Google Cybersecurity Professional Certificate, gaining hands-on experience in threat detection, risk assessment, and security operations.

### **Vivacity Tech PBC**

<i>Software Quality Engineer Intern</i>	<b>Remote, St. Paul, Minnesota</b>
	<i>Jan 2024 – June 2024</i>

### **University of Illinois Technology Services**

<i>IT Operations Analyst</i>	<b>Urbana, Illinois</b>
	<i>Sep 2022 – Feb 2025</i>

## PROJECTS

### **NIST Password Generator + Passphrase Tool**

<i>Independent Owner</i>	<b>Urbana, Illinois</b>
	<i>July 2025</i>

- Built a browser-based password generator compliant with NIST SP 800-63B standards.
- Integrated the **Have I Been Pwned API** to detect compromised passwords and enhance credential hygiene.
- **Tools:** HTML, JavaScript, Fetch API, Web UI, Cybersecurity Standards

### **Predictive Modeling on Game Sales and Playtime**

<i>Group Lead</i>	<b>Urbana, Illinois</b>
	<i>Dec 2024</i>

- Developed regression and classification models to forecast game sales and playtime behavior.
- Engineered features, trained/tested models, and evaluated performance using R<sup>2</sup>, AUC, and RMSE.
- **Technologies Used:** Python, Scikit-Learn, Statsmodels, Linear Regression, Logistic Regression, Classification, Model Evaluation

## ACTIVITIES AND LEADERSHIP

**NSBE Member** – Coordinated STEM workshops for local schools, increasing outreach by 30%.

**SIGPwny** – Participated in weekly red/blue security workshops and CTF competitions focused on real-world hacking techniques.

## SKILLS

**Programming Languages:** Python, JavaScript, HTML, CSS, SQL

**Tools & Software:** Git, Jira, Jupyter Notebooks, Korbyt, MySQL, MongoDB (NoSQL), Wireshark, IPAM, Windows, Linux, MacOS

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn

**Certifications:** [Google Cybersecurity Professional Certificate](#)

**Cybersecurity:** CIA, OSI Model, MITRE ATT&CK, ServiceNow, Kali Linux, NMAP, SIEM, Security Frameworks, SBOM, Vulnerability scanning & assessment, Patch management, System security assurance