

## Work Experience

<b>Software Development Intern</b> Infrastructure and FMX Exchange	<b>Cantor Fitzgerald</b> New York, New York	<b>June 2024 - Present</b>
<ul style="list-style-type: none"><li>Developed a program that generates up-to-date network diagrams for over 200 offices using JavaScript, Jinja2, HTML Canvas, and Python.</li><li>Developed python script that concurrently checked SNMP configuration of over 2000 network devices using multithreading. Resulted in the exploitation of over 300 misconfigured SNMP agents.</li><li>Designed, coded, and deployed endpoint troubleshooting web app using python, HTML, CSS, JavaScript, and paramiko. Tool used globally by our infrastructure teams, providing a significant reduction in troubleshooting time.</li></ul>		
<b>Cybersecurity Intern - Co Director</b> Web Development	<b>CCT</b> Plattsburgh NY	<b>Jan 2024 - May 2024</b>
<ul style="list-style-type: none"><li>Coded internal organizational full stack website for the center for cybersecurity and technology using flask, HTML, CSS, JavaScript and SQLite.</li><li>Implemented a TCP Dump packet sniffer in an on-site Kubernetes cluster. Performed analysis using python's scapy library on incoming and outgoing packets within the DMZ.</li><li>Integrated results with an ELK stack for comprehensive analysis and visualization.</li><li>Configured and administrated two ubuntu linux servers to host hands-on technical workshops for over 30 students.</li></ul>		
<b>Full Stack Web Developer</b> Freelance	<b>Fiverr</b> Remote	<b>Jan 2024 - June 2024</b>
<ul style="list-style-type: none"><li>Developed full-stack web applications for clients using Flask, Python, HTML, CSS, JavaScript, and SQLite.</li><li>Collaborated with clients to gather requirements and ensure project alignment with their needs, managing projects from inception to deployment.</li></ul>		
<b>Information Technology Intern</b> Information Technology	<b>Ballston Spa National Bank</b> Ballston Spa NY	<b>May 2023 - Feb 2024</b>
<ul style="list-style-type: none"><li>Developed interactive webpage of the roadmap for the IT department using Sharepoint and MS Project</li><li>Configured and deployed UPS network cards so they could be managed and monitored using SNMP</li></ul>		

## Projects

### Honeynet Distributed System

- Engineered an on site kubernetes cluster to host microservices and implemented monitoring services such as prometheus, ELK Stack, and grafana.
- Coded and deployed custom honeypots into the cluster to farm data from threat actors to be sent to the ELK stack for analysis.
- Elected as a speaker to present at the **6th Annual North Country Cybersecurity Conference** discussing the architecture of a honeynet and how it provides value to your business.

## Technologies and Languages

- Languages:** Python, JavaScript, HTML, CSS, Java, SQL
- Technologies:** SQLite, Postgres, AWS, Docker, Kubernetes, Bash, Linux, Flask, Node JS, Git, ELK

## Education

- BSc:** Management Information Systems | **Minor:** Computer Science **Expected May 2025**