

# Patrick Zong

23503 Desert Gold Dr., Katy, TX 77494 • (832) 451 5591 • [0731patrickz@gmail.com](mailto:0731patrickz@gmail.com) • <https://www.linkedin.com/in/patrick-zong/>

---

## WORK EXPERIENCE

### Barclays Bank, Whippany, NJ

06/2024 - 08/2024

*Technology Cyber & Security Analyst Intern - Cyber Fraud Fusion Center*

- Assessed AI-assisted fraud threats through stakeholder interviews, delivering a comprehensive risk profile and action plan to improve organizational awareness and mitigation for both US and international colleagues
- Leveraged open-source intelligence tools like urlscan.io and VirusTotal's API to analyze potential phishing URLs
- Utilized Neo4j to analyze thousands of fraud cases to uncover patterns and connections to aid in fraud detection
- Managed tasks in an Agile environment using Jira and utilized Confluence to access documentation and resources
- Navigated and gained exposure to Splunk as a data and log analysis tool within a zero-trust security environment

## EDUCATION

### Purdue University, West Lafayette, IN - Pursuing BS in Cybersecurity and Game Development and Design

Expected 12/2024

*Honors: Dean's List (all semesters) • Current Overall GPA: 3.82*

*Completed Coursework Includes:*

- |                                     |                                    |  |
|-------------------------------------|------------------------------------|--|
| ● Cybersecurity Fundamentals        | ● System Administration            | ● Advanced Coding Security                 |
| ● Incident Response Management      | ● Database Fundamentals            | ● Systems Analysis & Design Methods        |
| ● Systems Programming               | ● Basic Cyber Forensics            | ● Managing Info. Technology Projects       |
| ● Network Administration & Security | ● Vulnerability Analysis & Testing | ● Foundations In Homeland Security Studies |
| ● Network Engineering Fundamentals  | ● Introduction to Cryptography     |  |

## PROJECTS

### Conducted security assessments and incident response

01/2024 - 05/2024

- Developed an extensive CIRP detailing three incidents across both Windows and Linux environments
- Performed operational triage and created playbooks for ransomware, defacement, and credential harvesting incidents
- Established threat profiles and security controls using honeypots, SIEM (ELK stack), and IDS (OSSEC) tools

### Configured virtual network architecture

09/2023 - 12/2023

- Created network architecture complete with port groups, routers, firewalls, VPNs, servers, and client devices
- Configured and managed firewall rules for pfSense and VyOS devices for Public, DMZ, and Private zones
- Deployed IPsec and OpenVPN Site-to-Site and Client-Access VPNs between zones

### Exploited vulnerable machines in a virtual environment

10/2023 - 11/2023

- Used Nmap and Nessus to scan purposely vulnerable Metasploitable and Ultimate LAMP devices
- Utilized Kali Linux device used for reconnaissance, probing, and attacking target machines
- Used Metasploit on Kali to launch exploits on the vulnerabilities found on the target machines

### Set up physical networking environments with enterprise-class hardware

01/2023 - 04/2023

- Configured Cisco Switches and Router, VyOS Router, and HP Aruba Switch
- Set up DHCP services, Network Address Translation, and Access Control Lists in a lab environment
- Used packet analysis tools such as Wireshark and Trace Route to capture and analyze inbound/outbound traffic

## SKILLS & TOOLS

- |             |                       |                               |
|-------------|-----------------------|-------------------------------|
| ● Python    | ● Linux OS/Kali Linux | ● Digital Forensics           |
| ● Java      | ● Active Directory    | ● Microsoft Office/Word/Excel |
| ● C/C++     | ● SQL                 | ● Firewall Management         |
| ● Wireshark | ● Neo4j               | ● Penetration Testing         |

## ACHIEVEMENTS

### SAP Cybersecurity Virtual Experience Program Participant

08/2022 - 3 hours

*Participated in the open-access SAP Cybersecurity Virtual Experience Program with Forge*

- Pinpointed password flaws for client's most sensitive accounts
- Conducted phishing analysis and gave recommendations on a client's systems and identity