

# Patrick Zong

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## WORK EXPERIENCE

**Deloitte, Dallas, TX**

**01/2026 - current**

*Delivery Analyst - Software Engineering Solutions*

- Process 40+ veteran disability claims daily, triaging medical contentions and routing cases to appropriate specialty groups within the VA disability evaluation system while abiding by HIPAA compliance requirements
- Maintain 95%+ case processing accuracy while collaborating with cross-functional teams to ensure efficient routing

**Aurascape, Santa Clara, CA**

**02/2025 - 11/2025**

*Cybersecurity Software Engineering Intern - Startup*

- Engineered, tested, and integrated a dynamic Python document retrieval pipeline with Playwright to reliably discover, fetch, and ingest web data into a RAG-based risk classifier, processing 100+ documents per hour
- Improved app risk classification speed by 4x and accuracy by 10x, reducing manual QA efforts through automation
- Deployed pipeline components with Docker in a Google Cloud environment, ensuring scalability and reliability
- Designed a robust data deduplication system for a 1,000+ record MongoDB database, identifying and removing dozens of duplicate entries to improve data accuracy and resolve front-end integration conflicts
- Captured and analyzed HTTP/WebSocket traffic from endpoints and APIs across 50+ GenAI apps with Proxyman to write JSON signatures for the core engine, enabling public launch, securing \$50M in additional funding, and achieving a Top 10 placement at RSAC Innovation Sandbox

**Barclays, Whippany, NJ**

**06/2024 - 08/2024**

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

- Assessed 30+ AI-assisted fraud threats through stakeholder interviews, delivering a comprehensive risk profile and action plan to improve organizational awareness and mitigation for US and international colleagues
- Performed open-source intelligence with urlscan.io and VirusTotal to verify dozens of potential phishing URLs daily
- Utilized Neo4j to uncover relationships across thousands of fraudulent and mule accounts
- Managed tasks in an Agile environment using Jira and Confluence to maintain documentation and resources
- Leveraged Splunk for anomaly detection and log analysis within a Zero-Trust security environment

## EDUCATION

**B.S. in Cybersecurity and Game Development and Design**

**08/2020 - 12/2024**

Purdue University, West Lafayette, IN

Honors: Dean's List (all semesters) • Overall GPA: 3.84

Relevant Coursework:

- Incident Response, Network Engineering, IT Project Management, Cryptography, System Admin., Secure Coding

## PROJECTS

**Performed vulnerability analysis and penetration tests in lab environments**

**08/2024 - 12/2024**

- Identified vulnerabilities in simulated environments, utilizing Kali Linux to perform reconnaissance, privilege escalation, and lateral movement strategies; suggested remediations based on collected threat intelligence
- Simulated a phishing-based attack using a malicious MS Word macros to establish persistence via a reverse shell

**Conducted security assessments and incident response**

**01/2024 - 05/2024**

- Developed an extensive CIRP detailing over 10+ incidents across both Windows and Linux environments
- Created 3 playbooks for ransomware and credential harvesting mitigation using SIEM and IDS (OSSEC) tooling

## SKILLS & TOOLS

**Security & Analysis:** Threat Modeling, Penetration Testing, Incident Response, Network Forensics (Wireshark, Proxyman), SIEM (Splunk), IDS, OSINT, Vulnerability Analysis, Cyber Forensics

**Systems & Infrastructure:** SQL/MongoDB, Linux OS/macOS, Google Cloud (GCP), Docker, Pipeline Design (DevSecOps), Windows Active Directory, Firewall Management, Identity and Access Management (IAM)

**Engineering & AI:** Python, C/C++, Java Programming, Shell Scripting, Security Automation, Playwright, REST APIs, JSON, LLM Tool Use/MCP, Prompt Engineering/Injection, Jira/Confluence, Procedural Generation