

# JAKE C. FRENZEL

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## EDUCATION

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### Grand Canyon University

Phoenix, AZ

*B.S. in Cybersecurity*; GPA: 3.86

Relevant Coursework: Wireless & Network Security, Ethical Hacking, Malware Analysis, and Digital Forensics.

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## CERTIFICATIONS

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### Threat Intelligence Support Unit (TISU)

- Arizona Cyber Threat Response Alliance, Completed Dec. 2025.
- Gained hands-on experience in threat intelligence analysis, security operations fundamentals, and MITRE ATT&CK framework, including adversary tactics, techniques, & procedures (TTPs), and security controls.

### CompTIA Network+ – Expected 2026

- Computing Technology Industry Association, In progress.
- Studying core networking concepts including TCP/IP, routing, switching, network security, and troubleshooting methodologies.

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## PROJECTS

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### Personal Cybersecurity & Networking Lab

- Designed and documented a reproducible cybersecurity home lab, architecting network topology, IP schemes, VLAN segmentation, and deployment workflow to ensure clarity and repeatability.
- Configured pfSense firewall policies, routing, VLANs, and hardening procedures, integrating with Proxmox virtualized Linux/Windows environments to enforce segmented access.
- Created labs & exercises with step-by-step guides for network security, monitoring, and penetration testing scenarios, plus documented lessons learned and best practices for future iteration.
- Troubleshot network misconfigurations (IP conflicts, routing, DNS) using Linux CLI tools and applied security best practices across lab environments.

### Security Research Project - Windows Kiosk Bypass Techniques (Github)

- Contributed to technical research analyzing attack surface within restricted Windows 10/11 kiosk environments
- Identified subdomain-based delivery vectors enabling Living-off-the-Land binary execution under URL restrictions
- Analyzed platform-specific behavioral differences and documented reproducible attack methods and mitigations

### Cyber CTF Platform - Full-Stack Web Application

- Developed and deployed a full-stack CTF (Capture The Flag) platform using Next.js 16/React 19 with TypeScript (frontend), Django 6.0 REST Framework (backend), and PostgreSQL (database), enabling organizers to host cybersecurity competitions and participants to solve challenges in real-time.
- Implemented JWT-based authentication with refresh tokens, role-based access control (admin/competitor permissions), user registration with email verification, password reset workflows, and rate-limiting to prevent brute-force attacks.
- Applied secure coding practices including input validation through serializers, Django ORM for SQL injection prevention, CSRF token protection, CORS configuration, XSS prevention through React's

built-in escaping, and secure HTTP headers (Content Security Policy, XSS filtering).

## SKILLS

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- Cybersecurity Principles & Threat Analysis
- Open Source Intelligence (OSINT) Research
- Cyber Forensics & Malware Analysis
- Ethical Hacking
- Virtualization (Proxmox, VMWare)
- Attention to Detail
- Adaptability
- Networking Fundamentals (TCP/IP, DNS, Subnetting)
- Windows & Linux Operating Systems
- Programming: C, Python, JavaScript
- SIEM Tools (Splunk, Wazuh)
- Security Tools (Nmap, Wireshark, Metasploit)
- Problem Solving
- Critical Thinking

## WORK EXPERIENCE

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### The Picklr

Tempe, AZ

#### Front Desk Associate

Nov 2024 – Current

- Troubleshoot Wi-Fi connectivity, POS system issues, and basic IT problems during shifts.
- Assist customers with account access, password resets, and navigation of the facility's reservation software.
- Utilize cloud-based reservation management software to register users and manage court assignments efficiently.
- Greet and check in guests while managing moderate call volume, handling inquiries and reservations with strong attention to detail and customer service.

### Amazon Warehouse

Channahon, IL

#### Sortation & Fulfillment Associate

Jan 2023 – Sept 2023

- Used handheld scanning devices integrated with Amazon's warehouse management system (WMS) to track inventory movement and maintain accurate product data.
- Packed orders with high attention to detail, ensuring accuracy in product selection and packaging.
- Analyzed returned orders for defects or damage and sorted items accordingly.
- Restored product presentation replacing packaging, labeling, and ensuring items were ready to be sent.

### Sky Zone

Joliet, IL

#### Sky Zone Court Monitor

Oct 2020 – Dec 2022

- Supervised trampoline courts to ensure guest safety and enforce park rules.
- Provided clear instructions on safe jumping techniques and assisted guests as needed.
- Identified unsafe behavior or potential hazards and intervened promptly to prevent incidents, maintaining a safe environment for all guests.
- Operated point-of-sale (POS) systems to process transactions accurately and maintain secure handling of cash and card payments.