

Cezar Pedroso

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EDUCATION

William Penn University | Oskaloosa, IA

Jan. 2023 - Dez. 2026 (Expected)

B.A. in Software Engineering, Minor in Information Technology| GPA: 3.5/4.0

- **Courses:** Data Structures & Algorithms, Information & Security Assurance, Networking, Object-Oriented Programming, CLI & Scripting, Operating Systems, Database Management Systems
- **Honors:** Dean's List (3 semesters)

TECHNICAL SKILLS

Technical Languages: Python, PowerShell, Bash, C#, JavaScript

Cybersecurity, Cloud & Infrastructure:

Nmap, Metasploit, Burp Suite, Wireshark, Splunk, Elastic, Active Directory, Docker, AWS, Azure, Linux Administration, Windows Server, Vulnerability Assessment, Penetration Testing, Zero Trust Architecture

RELEVANT EXPERIENCE

AI Equity Alliance| Oskaloosa, IA

Sep. 2025 - Present

Software Engineer Intern

- Develop applications and tools using Python, Node.js, and React
- Develop REST APIs and integrate cloud services for clients
- Configure and manage Azure cloud resources, ensuring secure access and proper allocation
- Collaborate with engineering teams to build scalable and secure solutions

Jeremy Empie Web Design LLC | Oskaloosa, IA

May 2025 - Jul. 2025

Intern

- Configured office infrastructure (servers, routers, switches) with reliable and secure network practices
- Managed backend systems via cPanel (MySQL, DNS, domain security plugins) to maintain stable and safe operations
- Built and deployed 7 secure, responsive websites with strong application security controls

William Penn University | Oskaloosa, IA

Sep. 2023 - Present

Computer Lab Assistant

- Supported 120+ students with python programming, databases, and Microsoft Office
- Helped student by assembling and configuring computer hardware, followed by secure OS setup and system configuration to ensure reliable performance

PROJECTS

Honeypot Deployment & Analysis | *Personal Project*

Sep. 2025

- Deployed a T-Pot honeypot on a secured cloud server to capture 290,000+ attack attempts in one week
- Conducted threat analysis using Splunk and Elastic, identifying attacker behaviors and network intrusion patterns
- Documented findings and prepared actionable security reports for simulated enterprise environments

Vulnerability Scanner & Automated Exploitation Tool (Python) | *Personal Project*

Jul. 2025

- Designed and implemented a penetration testing tool using Nmap + Metasploit for automated vulnerability scanning, improving CVE detection accuracy to 90%
- Improved application security testing by automating exploit execution via RC scripts, reducing manual effort by 40%
- Built a PDF reporting system with CVE analysis, exploit summaries, and session logging aligned with security architecture best practices

CTF Participant | *CornCon Cybersecurity Conference*

Oct. 2025

- Competed in a live Capture the Flag focused on password spraying, lateral movement, and privilege escalation in a simulated Active Directory environment
- Practiced AD enumeration, credential attacks, and privilege escalation techniques to understand and mitigate enterprise security weaknesses

Encrypted File Vault (C#)| *Personal Project*

Aug. 2025

- Developed a secure file vault implementing AES-256-GCM encryption and Argon2 password hashing
- Applied Zero Trust data protection principles, focusing on encrypted metadata storage, and secure deletion mechanisms

CERTIFICATES

CompTIA Security+ (In Progress, Expected 2025)

Ethical Hacker – Cisco Networking Academy (2025)

Networking Basics – Cisco Networking Academy (2025)

Introduction to Cybersecurity – Cisco Networking Academy (2025)