

# Cezar Pedroso

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## EDUCATION

**William Penn University | Oskaloosa, IA**

**Jan. 2023 - Dec. 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 & Tools:** Nmap, Burp Suite, Metasploit, Wireshark, Splunk, Elastic, Active Directory, Network Infrastructure, Windows Server, Vulnerability Assessment, Penetration Testing

**Cloud & Infrastructure:** Docker, AWS, Azure, Linux Administration, IT Support, Troubleshooting, Git

**Languages:** English (Fluent), Portuguese (Fluent), Spanish (Advanced)

## RELEVANT EXPERIENCE

**AI Equity Alliance | Oskaloosa, IA**

**Sep. 2025 - Present**

*AI Software Engineer Intern*

- Develop applications and tools using Python 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

**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

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

**Aug. 2025**

- Developed a secure file vault implementing AES-256-GCM encryption and Argon2 password hashing
- Enhanced application security with encrypted metadata storage and secure deletion mechanisms

**Honeypot Deployment & Analysis | Personal Project**

**Sep. 2025**

- Deployed a T-Pot honeypot on a secured Hetzner cloud server with custom firewall, capturing 290,000+ attacks in one week
- Conducted threat intelligence analysis across multiple countries, identifying attacker behavior and network intrusion attempts, and compiled a detailed security report

**HomeLab | Personal Project**

**Sep. 2025**

- Built a Proxmox lab with Windows and Linux VMs to simulate enterprise networks and manage secure IT infrastructure
- Practiced firewall and VPN configuration, network segmentation, access control, vulnerability assessments, and penetration testing in a controlled environment

## 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)**