

Cezar Pedroso

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Education

William Penn University Oskaloosa, IA | Jan 2023 – Dec 2026

- **B.S. in Software Engineering & Information Technology**, Minor in Business Management — GPA: 3.5/4.0

Experience

Jeremy Empie Web Design LLC (Intern) Oskaloosa, IA | May 2025 – Jul 2025

- Installed and configured office infrastructure **including switches, routers**, and networking equipment
- Managed backend systems via cPanel: **MySQL databases, DNS/domain settings, and security configurations**
- Developed and deployed **7 responsive websites** using **WordPress, HTML/CSS, JavaScript, and PHP**

WPU: Computers & Tech Lab (Lab Assistant) Oskaloosa, IA | Sep 2023 – May 2024

- Assisted **60+ students** with technical issues, including hardware, software, and programming issues
- Mentored students on final-year projects and maintained lab computers for security and functionality

WPU: Students Services (Resident Assistant) Oskaloosa, IA | Jul 2024 – Present

- Supervise **100+ students** and lead a team of **6+ resident assistants**
- Enforce policies and respond to incidents and emergencies

Projects

Vulnerability Scanner & Automated Exploitation Tool (Python)

- Integrated **Nmap** and **Metasploit** for CVE detection and automated exploitation with 90% accuracy in test environments.
- Built dynamic PDF reporting with risk scoring, exploit summaries, and session logs
- Built a **modular JSON CVE database** and automated exploit execution, reducing manual testing time by 40%

Encrypted File Vault (C#)

- Designed and Implemented **AES-256-GCM encryption with Argon2** password-based key derivation to defend against brute-force attacks
- Added secure metadata storage and file deletion to prevent data recovery

Reverse Proxy Gateway YARP (.NET 8, C#)

- Developed production-ready reverse proxy with load balancing, route transformations, and failover handling.
- Developed mock **API services** to demonstrate routing and load distribution
- Packaged as a container-ready, multi-project solution and deployed to **AWS EC2**

Technologies & Skills

- Programming & Scripting: C#, Python, JavaScript, HTML/CSS, Bash, PowerShell
- Databases & Tools: SQL, PostgreSQL, MongoDB, JSON, Git/GitHub, Unity, WordPress, Docker, AWS
- Networking & Systems: Linux Administration, Routing & Switching, Active Directory
- Security: Cryptography, Vulnerability Testing (Nmap, Metasploit)
- Languages: English (Fluent), Portuguese (Fluent), Spanish (Advanced)