Cezar Pedroso

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Education

William Penn University

Oskaloosa, IA | Jan 2023 - Dec 2026

B.S. in Software Engineering, Minor in Information Technology — GPA: 3.5/4.0

Experience

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

- Installed, configured, and optimized office infrastructure including switches, routers, and networking equipment
- Developed and deployed 7 responsive websites using HTML/CSS, JavaScript, and PHP
- Managed backend infrastructure via cPanel, administering MySQL databases, domain/DNS configurations, file structures, and security plugins

William Penn University (Lab Assistant) Oskaloosa, IA | Sep 2023 - Present

- 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

Projects

Vulnerability Scanner & Automated Exploitation Tool (Python)

- Developed an automated vulnerability scanner integrating Nmap and Metasploit for CVE detection and exploitation with 90% accuracy in test environments
- Created a dynamic PDF reporting system with risk assessments, exploit summaries, and session logging for penetration testing documentation
- Automated exploit execution via Metasploit RC scripts, reducing manual testing time by 40%, and created a modular JSON CVE database

Encrypted File Vault (C#)

- · Designed and implemented a secure AES-256-GCM encryption system ensuring confidentiality and integrity of stored files
- Integrated Argon2 password-based key derivation to defend against brute-force attacks
- Developed encrypted metadata storage and secure deletion features to prevent data recovery

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

- Built a production-ready reverse proxy, implementing load balancing, route transformations, and a catch-all fallback system
- Developed mock API services to demonstrate routing and load distribution
- Packaged as a multi-project .NET 8 solution with container-ready architecture for deployment scalability and deployed multiple demo backend services to AWS EC2

Technologies & Skills

- Programming & Scripting: C#, Python, C++, JavaScript, HTML/CSS, Bash, PowerShell
- Databases & Tools: SQLite, PostgreSQL, MongoDB, JSON, Git/GitHub, Unity, Docker, AWS, Azure
- Networking & Systems: Linux Administration, Routing & Switching, Active Directory
- Languages: English (Fluent), Portuguese (Fluent), Spanish (Advanced)