Fernando H. Remes

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EDUCATION

The University of Texas at El Paso (UTEP) *December 2024*
Bachelor of Science in Computer Science *GPA: 3.71/4.00*

- Concentration in Secure Cyber Systems
- Minor in Mathematics

El Paso Community College (EPCC) *July 2022*
Associates of Arts Degree in Computer Science

CERTIFICATIONS & ACHIEVEMENTS

Certifications

- Google Cybersecurity Certificate
- Google IT Support Professional Certificate

Achievements

- First Place [Hackathon/Capture the Flag], November 2024.
- First Place [FBLA Competition - Website Design], February 2020.

RELATED PROJECT EXPERIENCE

INFILTR8 – Capstone Project – Team Leader – 2024

- A yearlong industry-sponsored project with DEVCOM (U.S. Army Combat Capabilities Development Command) to build a Full-Stack Web Reconnaissance Analysis Tool.
- Led a team using Agile methodology to incorporate importing recon files, filter into a table in order of security vulnerabilities, and export as a PDF or Excel file, while containing a user-friendly interface.
- Directed team roles, role responsibilities, and ensured project milestones were achieved within the deadlines.
- Developed in Svelte, Python, & Neo4J

Fallen Empire – Course Project – Team Co-Leader – Spring 2024

- Simulated a Command & Control (C2) system using PowerShell-Empire, a post-exploitation agent, with Windows PowerShell. Using Kali Linux to create an attack script on vulnerable Operating Systems. Our research led us to learn how attackers infect OS and how Empire detects the virus.
- Developed and facilitated an in-class exercise that allowed students to replicate the simulation.
- Presented project through an engaging PowerPoint presentation and video format.

Ticketminer [Ticketmaster Clone] – Course Project – Design Lead – Fall 2023

- Ticketminer, a Ticketmaster-inspired application, allowed a user to sign in and log in to "purchase" tickets for various events and view an invoice confirming their "purchase", and allowed admins to "create" events with valid upcoming date and time for the users, cancel events, and refund users from events.
- Led the design of a user-friendly terminal interface, ensuring intuitive navigation and feature accessibility.
- Developed in Java & Terminal environment

PyTorch Digit Recognition – Personal Project – Summer 2024

- Demonstrating the process of training and evaluating a machine learning model.
- Trained a model on a dataset of handwritten digits and evaluated its performance, achieving accurate digit recognition by retrieving predictions from a selected index.

SKILLS

Programming Languages: Java, Python, C/C++, HTML, CSS, JavaScript, Scala, x86 Assembly, & Markdown

Frameworks & Databases: ReactJS, Svelte, PyTorch, MySQL, NoSQL, & Neo4J

Operating Systems: Windows 10/11, Linux, Ubuntu, & Kali Linux

Networking & Security: Wireshark, DNS, TCP/IP, & Networking/Subnetting

CyberSecurity Tools: PowerShell Empire, IDA Pro, Ghidra, & DShell