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Denis Fuentes

Education

Expected Fall 2025 | **Bachelor of Science in Computer Science**, *University of Houston*, Houston, TX
Relevant Coursework: Software Design, Fundamentals of Artificial Intelligence, Computer Networks, Operating Systems, Algorithms & Data Structures, Database Systems (SQL)

Skills

Programming | C++, Python, HTML, CSS, C#, Java

Software | POSIX Threads, Sockets API, PyShark, Wireshark, JSON, Network Scripting, PowerShell, Git, Makefile, CMake, SQL, MySQL, TCP/IP, Network Protocol Analysis

Concepts | OOP, Data Structures, Algorithms, Network Protocols

Languages | English, Spanish

Work Experience

January 2023 – Present | **Trainer**, *Compudopt*
- Taught 150+ students foundational skills in C++, Python, and front-end development through project-based learning.
- Collaborated with a team of 40+ to plan, and execute projects and coding workshops.
- Contributed to serving over 17,000 students, distributing 16,520 devices, and delivering 46,000+ hours of learning.

Project Experience

Dec 2024 | **Network Client-Server Program (C++)**
- Developed a client-server model for interprocess communication using UNIX sockets.
- Utilized multithreading for the client to handle multiple connections efficiently.
- Enhanced server performance by managing concurrent requests using child processes.

Nov 2024 | **IP Address Pinning and Monitoring Tool (Python)**
- Designed a Python tool for real-time network diagnostics and IP monitoring.
- Implemented robust error handling and logging to track network performance and identify connection issues.
- Optimized code for efficient processing of multiple IP addresses, ensuring reliable performance in dynamic network conditions.

Oct 2024 | **Shannon Coding Algorithm (C++)**
- Implemented a data compression algorithm using POSIX threads to enhance processing efficiency.
- Designed the program to calculate symbol frequencies, generate Shannon codes, and encode messages.
- Applied multithreading techniques to improve performance in handling large datasets.

Activities

2023 – Present | **Code[Coogs]**
- Active member contributing to coding projects and participating in competitions.
- Collaborated with peers to develop software solutions in hackathons and workshops.