Denis Fuentes

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EDUCATION

University of Houston, Houston, TX

**Bachelor of Science, Computer Science Expected Fall 2025**

**Major GPA:** 3.0

Relevant Coursework: Database Systems (SQL), Computer Networks, Data Structures & Algorithms, Fundamentals of Artificial Intelligence, Operating Systems, Software

SKILLS

* **Programming:** C++, Python, HTML, CSS, JavaScript, C#
* **Software:** POSIX Threads, Sockets API, PyShark, Wireshark, SQL, JSON
* **Concepts**: Data Analytics, OOP, Algorithms, Network Protocol Analysis, Data Structures
* **Languages:** English, Spanish

WORK EXPERIENCE

**Compudopt**  January 2023 – Current

Trainer

* Taught 150+ students foundational skills in C++, Python, and problem-solving through project-based learning.
* Collaborated in a team of 40+ to plan and execute coding workshops.
* Contributed to serving 17,000+ students, distributing devices, and delivering 46,000+ hours of learning.

PROJECT EXPERIENCE

**IP Address Pinning and Monitoring Tool (Python)** November 2024 - November 2024

* Designed a Python tool for real-time network diagnostics and IP monitoring
* Applied Python’s robust libraries for error handling, logging, and efficient network performance analysis
* Strengthened skills in scripting and network protocols

**Maze Generator (C++)** May 2024 - May 2024

* Developed a dynamic maze generator and solver using graph traversal and Dijkstra's algorithm.
* Implemented object-oriented design principles and optimized algorithms for performance.
* Collaborated with a teammate to implement features using Git for version control, enhancing teamwork and code integration.
* Demonstrated proficiency in C++ with memory management and efficient data structures.

**Network Client-Server Program** **(C++)** December 2024

* 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.

ACTIVITIES

**Code[Coogs]** January 2024 - Current

* Actively participate in bi-weekly coding competitions, achieving top 5 placements in three events and improving problem-solving skills and algorithmic proficiency.
* Working on projects with a group of 10+ members throughout the semester and presenting the final product.

**UH Men’s Soccer Club** September 2023 – Current

* Serve as Team Leader and Captain, overseeing team activities, organizing events, and leading strategic initiatives