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, C#, JavaScript; Familiarity with Swift, Java, Go, Verilog, TypeScript*
- **Machine Learning & AI***: PyTorch* (LSTM/RNN)*, Feature Engineering, Model Evaluation*
- **Software:** *SQL, POSIX Threads, Sockets API, PyShark, Wireshark, JSON*
- **Concepts**: *Git/GitHub, Unit Testing, OOP, Network Protocol Analysis, Data Analytics*
- **Languages:** *English* (fluent), *Spanish* (fluent)

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 develop and refine coding curricula
- Strengthened communication by explaining complex code and logic, helping diverse learners grasp core concepts

PROJECT EXPERIENCE

Team Picton – Web App for Student Form Submissions and Approvals April 2025

- Developed a full-stack web application using Django and React, integrating Office365 authentication and PostgreSQL to facilitate student form submissions and tracking
- Engineered a multi-step approval workflow with custom Django models and REST endpoints, enforcing role-based access so that staff and administrators can effectively approve or return submissions
- Designed and implemented an interactive staff dashboard featuring dynamic UI components (ApprovalQueue, DashboardStats, RecentSubmissions) with real-time updates and notifications, while ensuring collaboration through Git and reproducible environments with micromamba

Stock Market Prediction ML Model (PyTorch) April 2025

- Developed a modular codebase for an LSTM-based stock price predictor, integrating Git for collaboration
- Employed robust data preprocessing and unit testing to ensure consistent, maintainable code
- Delivered final results with visualized performance metrics (R-squared, training loss) to illustrate model accuracy

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

IP Address Pinning and Monitoring Tool (Python) 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

ACTIVITIES

MISSO Present

- Participating in weekly professional workshops, expanding leadership and communication skills

UH Men's Soccer Club Present

- Team Leader & Captain, coordinating practices, events, and games strategies for 20+ members