Victor Hugo Del Carpio Gomez

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EDUCATION

Yale University, School of Engineering & Applied Sciences New Haven, CT
B.S. in Computer Science *2022*

- **Honors:** QuestBridge National College Match Scholarship.
- **Activities:** Code Haven, Yale Computer Society, Yale Machine Learning, Sube.
- **Coursework:** Data Structures & Programming Techniques, Algorithms, Systems Programming & Computer Organization, Object-Oriented Programming, Computational Intelligence for Games, Database Systems.

SKILLS

Technologies: Python, C/C++, Git, Java, R, C#, HTML/CSS, JS (React, Node, Express), Azure, SQL, Rust.
Certifications: Azure Fundamentals , Azure AI Fundamentals , Azure AI Engineer Associate .

EXPERIENCE

Microsoft Atlanta, GA
Azure Core Intern, XArchive *May - Aug 2023*

- Leveraged Azure technologies to create an environment with the Project Silica code using Azure Container Registries, establishing an Azure Batch endpoint for the ML decode workflow.

Used: Azure Machine Learning Studio, Azure Storage Explorer, Azure Container Registry, Python, Rust.

Azure Core Intern, Direct Drive *June - Aug 2022*

- Refactored serialization of NVDIMM/SSD drive maps from binary to JSON format for forwards compatibility with web tools; worked within the Direct Drive (Ultra Disk) team, providing high-performance cloud storage.

Used: C++, Jsoncpp, Virtual Machines, WinDbg, Visual Studio.

Yale Interactive Machines Group New Haven, CT
Undergraduate Research Assistant *June - Dec 2021*

- Debugged critical defects in the data collection robot's software, refactored for ROS Noetic and Ubuntu 20.04.
- Developed component for Microsoft's Platform for Situated Intelligence to visualize 3D skeletal data captured in ROS with the Azure Kinect, identified missing feature in Psi Studio (PR #171).

Used: Python, C#, Platform for Situated Intelligence, ROS, Visual Studio.

Inspirit AI Remote
Machine Learning and Artificial Intelligence Instructor *June - Aug, 2021-23*

- Lectured beginner & intermediate-level cohorts of secondary students in foundational machine learning topics.
- Guided students through structured Google Colab notebooks & advised several group culminating projects.

Student Technology Collaborative New Haven, CT / Remote
Student Technician / Queue Coordinator *Oct 2019 - Feb 2023*

- Provided in-person & remote troubleshooting support on IT-related issues such as malware, data corruption, software re-installation, & water damage for Yale College and Graduate/Professional school students.

PROJECTS

TBD.Psi.Components: ROS message deserializers for visualizing data captured in ROS on Psi Studio.
PandasAI: CLI tool (PR #107). Multiple dataframes support (PR #181). Streamlit chat UI (demo).
GenFF Website: Demo Flask site for *Pose Generation for Social Robots in Conversation Group Formations*.
Face-Py Bird: Flappy Bird implementation in Python that replaces key inputs with head nods.
Connect Four AI: Implemented a Monte Carlo Tree Search and Deep Q-Network for Connect Four.
Shoutify: Spotify clone with the ability to write comments on timestamps of songs and annotate lyrics.
ChatGPT Bot: GroupMe bot that chats, completes, and draws using GPT-3, text-davinci-003, and DALL·E 2.