

Victor Hugo Del Carpio Gomez

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EDUCATION

Yale University

B.S. in Computer Science

New Haven, CT

May 2024

- **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

Languages: Python, C/C++, Java, R, C#, JavaScript, React, SQL, Unix, Git.

Certifications: MS Azure Fund., MS Azure AI Fund.

EXPERIENCE

Microsoft

Azure Core Storage Intern, Cloud+AI Group

Atlanta, GA / Remote

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

Undergraduate Research Assistant

New Haven, CT

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

Machine Learning and Artificial Intelligence Instructor

Remote

June - Aug, 2021/22

- 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

Student Technician / Queue Coordinator

New Haven, CT / Remote

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.
- Facilitated communication with clients throughout the repair process via the ServiceNow ticketing system.

PROJECTS

TBD.Psi.Components: ROS message deserializers for visualizing data captured in ROS on Psi Studio.

GenFF Website: Demo Flask site for *Pose Generation for Social Robots in Conversation Group Formations*.

Face-Py Bird: Replaced upward arrow key inputs with head nod gestures using head pose estimation.

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.

LEADERSHIP EXPERIENCE

STEM for the Streets

Executive Director of Virginia Chapter, Co-Founder

Washington, D.C.

Sept 2017 - May 2020

- Led multi-week workshops in 5 elementary and middle schools in SE Washington, D.C. and Northern Virginia, reaching over 100 underprivileged students.
- Presented organization pitch to representatives of Microsoft, Amazon Web Services, UNICEF, and ECLAC.