

# Victor Hugo Del Carpio Gomez

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## EDUCATION

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### Yale University

New Haven, CT

*B.S. in Computer Science*

*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

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**Languages:** Python, C/C++, Java, R, C#, React.

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

## EXPERIENCE

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### Microsoft

Atlanta, GA / Remote

Azure Core Storage Intern, Cloud+AI Group

*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, 2021/22*

- 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

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

## PROJECTS

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

**GenFF Website:** Demonstration website to illustrate the generation methods described in the paper *Pose Generation for Social Robots in Conversation Group Formations*.

**Face-Py Bird:** Flappy Bird implementation which utilizes facial landmark recognition and head pose estimation to replace conventional upward arrow key inputs with head nod gestures.

**Connect Four AI:** Implemented a Monte Carlo Tree Search and Deep Q-Network for Connect Four.

## LEADERSHIP EXPERIENCE

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### STEM for the Streets

Washington, D.C.

*Executive Director of Virginia Chapter*

*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.