


Victor Hugo Del Carpio Gomez

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EDUCATION

Yale University, School of Engineering & Applied Sciences

New Haven, CT

- **Honors:** QuestBridge National College Match Scholarship.
- **Coursework:** Data Structures & Programming Techniques, Algorithms, Systems Programming & Computer Organization, Object-Oriented Programming, Computational Intelligence for Games, Database Systems.

SKILLS

Technologies: Python, C/C++, Java, C#, Go, Git, R, HTML/CSS, JavaScript, SQL, Rust.

Certifications: Azure Fundamentals , Azure AI Fundamentals , Azure AI Engineer Associate .

EXPERIENCE

Snap, Inc.

Santa Monica, CA

Software Engineering Intern

May - Aug 2024

- Optimized KeyDB cluster deployment by enabling single availability zone setups and reducing the minimum replication factor from 2 to 0, leading to an estimated annual savings of roughly \$230,000 on staging clusters.

Used: Java, Gradle, Go.

Apple

Fairfax, VA

Specialist

Dec 2023 - May 2024

- Maintained a Net Promoter Score > 90 & ranked in the top-10 vendors in the store location during Q2 2024.
- Contributed to the Apple Vision Pro launch through effective live demonstrations of key features.

Microsoft

Atlanta, GA

Azure Core Intern, XArchive

May - Aug 2023

- Established an Azure Batch endpoint for Project Silica's ML decode workflow & transferred the AutoML pipeline to the XArchive subscription for production deployment.

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

Microsoft

Atlanta, GA

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, Hyper-V, WinDbg.

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#, .NET, Platform for Situated Intelligence, ROS, NuGet.

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: Azure Kinect Body Tracking, PointCloud, and MarkerArray deserializers (PR #3).

PandasAI: CLI tool (PR #107). Multiple dataframes support (PR #181).

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

Shoutify: Spotify clone with the ability to write comments on timestamps of songs and annotate lyrics.