


Victor Hugo Del Carpio Gomez

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EDUCATION

James Madison University, College of Integrated Science & Engineering
Bachelor's Degree in Computer Science.

Harrisonburg, VA
May 2026

- **Activities:** Unix User Group.
- **Coursework:** Software Engineering, Computer Systems II, Discrete Structures II.

SKILLS

Languages: Python, C/C++, JavaScript, Shell scripting (Bash, Zsh), Java, C#/.NET, Go, Rust, SQL, R.

Technologies: Ubuntu, Debian, AWS, Azure, GCP, Docker, Kubernetes, Redis, KeyDB, TensorFlow, PyTorch.

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

EXPERIENCE

Snap, Inc.

Software Engineering Intern, Backend

Santa Monica, CA

May - Aug 2024

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

Apple

Specialist

Fairfax, VA

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

Azure Core Intern, XArchive

Atlanta, GA

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.

Microsoft

Azure Core Intern, Direct Drive

Atlanta, GA

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.

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).

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.

PROJECTS

TBD.Psi.Components: Azure Kinect Body Tracking, PointCloud, and MarkerArray deserializers.

PandasAI (YC W24): CLI tool & multiple dataframes support. Contributor before seed funding round.

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.

OpenAI-C: Interface for using OpenAI's API for chat completion, image generation, and speech synthesis in C.