


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

SKILLS

Technologies: Python, C/C++, Java, C#/.NET, Go, R, JavaScript, SQL, Rust, AWS, Azure, GCP, Docker.

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

EXPERIENCE

Around Town Movers

Software Engineer

Sterling, VA
Feb 2025 - Present

- Upgraded SuiteCRM from v7.10 to 8.8, streamlining data fields and integrating Google Calendar, DocuSign, QuickBooks, and Slack; cut hosting costs by 83% through AWS EC2 optimization and Savings Plans.
- Replaced legacy dispatch software with a custom Google Calendar-based truck scheduling system.
- Deployed a self-hosted RAG-powered LLM assistant using Ollama, enhancing company-wide automation.

Used: PHP, MariaDB, Python, Docker, AWS EC2 and Lambda, Slack API.

Snap, Inc.

Software Engineering Intern

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.

Used: Java, Gradle, Go, AWS, GCP.

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.

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

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: CLI tool. Multiple dataframes support.

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.