

Victor Hugo Del Carpio Gomez

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EDUCATION

James Madison University, College of Integrated Science & Engineering

Harrisonburg, VA

Bachelor's Degree in Computer Science.

May 2026

- **Honors:** Dean's List Spring 2026, Cum Laude.
- **Coursework:** Software Engineering, Computer Systems II, Discrete Structures II, Programming Languages, IT Consulting, Advanced Computer Networking, Full-Stack Web Development.

SKILLS

Languages: Python, C/C++, TypeScript, React, Java, C#/.NET, Go, Rust, SQL, R, Ruby, Bash.

Technologies: Ubuntu, Debian, AWS, Azure, GCP, Docker, Kubernetes, Redis, KeyDB, PostgreSQL, Grafana.

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

EXPERIENCE

The College Board

Remote

Software Engineer I

July 2026 - Present

- Built serverless AWS backend services for the BAWP real-time proctoring app, securing live-status WebSockets with policy-based authorization and fixing a production JWT auth failure. Added CloudWatch alerting and multi-environment GitHub Actions CI/CD with Playwright E2E gates.

Snap, Inc.

Santa Monica, CA

Software Engineering Intern, Backend

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

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.

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.

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).

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*.

ThoughtSwap: Web app facilitating class discussion where students advocate for swapped peer perspectives.

Praxly2: Educational IDE featuring real-time Java, Python, and pseudocode translation and debugging.