

Andres Delgado

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Education

University of Central Florida, PhD in Computer Science Aug 2024 – present

- GPA: 3.9/4.0
- **Coursework:** Parallel Computer Architecture; Resilient Computer System Design; Advanced Software Systems Security; Computational Complexity.

University of Central Florida, BS in Computer Science, Minor in Mathematics Aug 2019 – Dec 2023

- GPA: 3.5/4.0

Experience

Graduate Research Assistant, University of Central Florida – Orlando, FL May 2024 – present

- Mastered simulation tools such as the [gem5 architecture simulator](#)
- Contributed to development of linux-based simulation frameworks for the emerging CXL interconnect standard.
- Contributed to the development of linux modules for memory management of persistent memory and CXL-enabled system used in academic research.

Developer/Data Analyst, Findway Solutions – Orlando, FL May 2023 – present

- Designed and implemented a commissions system tailored to Findway Solutions' requirements, improving data accessibility and user efficiency.
- Pioneered the transition from manual data handling using Excel sheets to a robust database infrastructure, enhancing data accuracy, retrieval speed, and overall productivity.
- Played a pivotal role in troubleshooting and resolving IT issues across the organization, maintaining uninterrupted operations and user satisfaction.

Projects

Memcached-PMO Feb 2024

- A fork of Memcached made to work with Persistent Memory Objects to be used for research.
- Tools Used: C, Python

Weaklang 2023

- Built a compiler for a custom language inspired by PL/0 to become familiar with several compiler tools.
- Tools Used: C, Yacc, Lex, LLVM

Skills

Programming: C/C++ (Advanced), Python (Advanced), Java, TypeScript

Web/Frameworks: Next.js, React, Node.js

Tools & Systems: gem5 simulator, LLVM, Git, Linux, Docker

Languages: English (Native), Spanish (Native), French (Conversational)

Publications

LOaPP: Improving the Performance of Persistent Memory Objects via Low-Overhead at-Rest Summer 2024

PMO Protection

Derrick Greenspan, Naveed Ul Mustafa, **Andres Delgado**, Connor Bramham, Christopher Prats, Samu Wallace, Mark Heinrich, Yan Solihin

[10.1109/SEED61283.2024.00023](https://doi.org/10.1109/SEED61283.2024.00023)