

Fernando Antonio Fonteles Oliveira

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<https://github.com/FernandoAFoliveira>

Education

University of Central Florida — Orlando, FL

Bachelor of Science in Computer Science

Expected Graduation: Fall 2027

Valencia College — Orlando, FL

Associate of Science in Computer Science

Graduated May 2024

Technical Skills

Programming Languages

Python, C, JavaScript

Systems & Infrastructure

Windows Server, Active Directory, Virtualization, Network Architecture, VLAN Design

Networking

Routing, Switching, Firewalls, VPN, Network Segmentation

Development Tools

React, FastAPI, Git, Linux, VS Code

Technologies

Proxmox Virtualization, Enterprise Networking, Server Infrastructure, Backup Systems

Professional Experience

IT Manager

Sirgon Corporation — Casselberry, FL

May 2008 – Present

- Designed and deployed Windows Server infrastructure including Active Directory domain controllers, centralized authentication, and Group Policy management.

- Planned and implemented enterprise network infrastructure including Cat6 structured cabling, managed switches, firewalls, and VLAN segmentation.
 - Configured redundant server systems and failover mechanisms to improve infrastructure reliability and uptime.
 - Implemented role-based access controls to secure sensitive corporate information and maintain system security.
 - Organized and maintained server rack infrastructure including network switches, firewalls, and server hardware.
 - Performed system administration, troubleshooting, and maintenance across production environments.
 - Designed infrastructure improvements to increase network stability, performance, and security posture.
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Technical Projects

AI Assistant Control Panel

- Designed modular AI assistant architecture integrating language models with executable automation tasks.
 - Developed a full-stack interface using React and FastAPI.
 - Implemented structured communication between AI reasoning modules and system task execution.
 - Built tools allowing AI models to coordinate development workflows and file operations.
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Virtualization Home Lab

- Built a multi-node Proxmox virtualization cluster with centralized backup using Proxmox Backup Server.
- Created virtualized environments for infrastructure testing and software development experimentation.
- Configured virtual networking and storage systems to simulate enterprise infrastructure environments.

- Implemented backup and disaster-recovery workflows for virtualized systems.
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Certifications

CompTIA A+ Certification