David Silva

Tallahassee, FL · david.silva@daverhan.com · (941) 249-0960 CyberCorps(R): Scholarship for Service Recipient

EDUCATION

Florida State University

Master's in Computer Science | GPA: 4.0

Tallahassee, FL December 2025

Florida State University

Tallahassee, FL

Bachelor's in Computer Science | GPA: 3.95

May 2024

EXPERIENCE

Florida State University

 $Graduate\ Teaching\ Assistant$

Tallahassee, FL August 2024 - Present

- Led 50-minute recitation sessions, reinforcing key concepts and facilitating discussions
- Held weekly office hours to support students with course material and assignments
- Assisted in grading assignments and providing detailed feedback to support student progress

Florida State University

Webmaster, ACM @ FSU

Tallahassee, FL

August 2024 - Present

- Managed and updated the chapter website, ensuring timely content and optimal functionality
- Resolved spacing and margin issues, enhancing the site's layout and overall user experience
- Collaborated with ACM officers to integrate event details and resources, improving site engagement

Walmart Supercenter #721

Port Charlotte, FL

Food Team Lead

September 2020 - August 2022

- Managed grocery, frozen, and dairy departments, increasing sales by approximately 15%
- Led a team of 10 grocery associates who consistently achieved a 95% customer satisfaction rating
- Ensured fully stocked shelves and maintained a safe work environment with 0 incidents reported

Projects

DoorHinge React, TypeScript, Flask, MySQL

- Developed a web application to connect users with property listings
- Implemented Role-Based Access Control (RBAC) to manage user permissions and access rights securely
- Configured database schema and migrations, and integrated code into the main branch

Where's Lunch? Next.js, TypeScript, Redis

- Developed a web application designed to help a group of friends decide on where to eat for lunch
- Implemented a democratic decision-making process by allowing users to suggest and vote on locations
- Integrated Socket.IO to enable real-time communication and manage multiple concurrent lobbies

Fingerprint Attendance System Arduino, Flask, MySQL

- Utilized Arduino UNO R4 WiFi and a fingerprint sensor to capture and authenticate user fingerprints
- Developed a web interface using Flask for organization administrators to view attendance logs for events
- Ensured secure and scalable data storage and management using MySQL

Elevator Kernel Module C, Linux Kernel

- Developed a Linux Kernel Module that simulates an Elevator
- Designed the SCAN scheduling algorithm to optimize elevator operations and minimize wait times
- Implemented mutex-based synchronization to ensure safe multithreading operations

TECHNICAL SKILLS

C, C++, C#, Python, TypeScript/JavaScript, Assembly (MIPS, x86) Programming Languages: Web Development: HTML/CSS, Astro, React, Next.js, Node.js, Express.js, TailwindCSS

Mobile/Desktop App Development: .NET MAUI

Backend Development: Flask, SQLAlchemy, ASP.NET Core Web API

Databases: MvSQL, SQLite3, MongoDB, Redis

Arduino, Microcontroller Programming, Hardware Integrations Embedded Systems: DevOps and Cloud: Docker, Vercel, Google Cloud Platform (GCP), Microsoft Azure

Version Control: Git, GitHub

Operating Systems: Linux/Unix, Windows, macOS