DAVID SILVA

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EDUCATION

Florida State University	Tallahassee, FL
Master's in Computer Science | GPA: 4.0	December 2025
Florida State University	Tallahassee, FL
Bachelor's in Computer Science | GPA: 3.95	May 2024

WORK EXPERIENCE

Walmart Supercenter #721	Port Charlotte, FL
Food Team Lead	Sep 2020 - Aug 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

TECHNICAL SKILLS

Programming Languages:	C, C++, C#, Python, TypeScript/JavaScript
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:	MySQL, SQLite3, MongoDB, Redis
Embedded Systems:	Arduino, Microcontroller Programming, Hardware Integrations
DevOps and Cloud:	Docker, Vercel, Google Cloud Platform (GCP), Microsoft Azure
Version Control:	Git, GitHub
Operating Systems:	Linux/Unix, Windows, macOS

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

AWARDS

CyberCorps®: Scholarship for Service	Florida State University
National Science Foundation Scholarship for Service Recipient	August 2023 - December 2025
President's List	Florida State University
Maintained a 4.0 GPA during an Academic Semester	Fall 2022, Spring 2023, Summer 2023, Fall 2023
Dean's List	Florida State University
Maintained a 3.83 GPA during an Academic Semester	Spring 2024

ACTIVITIES

ACM Chapter @ FSU	Florida State University
Attended General Body Meetings and Programming Contest	Spring 2023, Fall 2023, Spring 2024
2023 ICPC Southeast USA Regional Programming Contest	Florida State University
Competed in the 2023 ICPC Southeast USA Regional Programming Contest	Spring 2024