Trevor Cooley

Tallahassee, Florida | 239-888-5495 | trevordcooley@gmail.com | https://www.linkedin.com/in/tdcooley

Education

Master of Business Administration (MBA) - Part Time   **Expected: May 2028**
Florida State University – Tallahassee, FL.
Bachelor of Science, Computer Science. GPA: 3.6 / 4.0   **May 2025**
Florida State University – Tallahassee, FL.
Associate of Arts (AA), General Studies. GPA 3.9 / 4.0   **May 2022**
Florida SouthWestern State College - Fort Myers, FL.
Honors/Awards: Dual Enrollment | Graduated With Honors | Dean's List 4 semesters | Phi Theta Kappa Honor Society

Technical Skills

Languages: C/C++, C#, Rust, XAML, Python, JavaScript, HTML, CSS, Java, SQL, Lua, Go / Golang

Technologies/Tools: Git / Github, Flask, Azure (VM/Networking), NoSQL, Kubernetes, CI/CD, AWS (EC2), Linux/Unix, NumPy, .NET, MAUI, PostgreSQL, Docker

Projects

Bar Stool Management Linux Kernel Module - Tallahassee, FL   May 2025 - Aug 2025

- Developed a backend operating systems Linux kernel module in C with three custom system calls (open_bar, bar_group_arrive, close_bar), implementing a multi-threaded server system with kthreads and mutex locks for concurrent bar waiting list management and resource allocation
- Created a comprehensive simulation system with server threads for customer seating and table cleaning operations, using linked lists for dynamic waiting queue management and optimized first-fit resource allocation
- Designed proc filesystem interfaces to monitor real-time system status, track performance metrics including customer satisfaction ratings, and visualize resource utilization across four tables

AI-Powered Thematic Music Database Recommendation System - Tallahassee, FL   Jan 2025 – April 2025

- Implemented machine learning K-means clustering to categorize songs based on audio features (tempo, danceability, energy, and loudness) from the Million Song Dataset in a full-stack Flask (Python) web application with HTML, CSS, and JavaScript
- Engineered a PostgreSQL database in BCNF with 5 entities (Artist, Song, User, Playlist, Playlist_Song) maintaining referential integrity across 4 relationships while optimizing for query performance
- Designed feature-rich user interfaces enabling music discovery and recommendation through thematic audio clusters, personalized playlist management, and a search function to find similar songs based on audio characteristics

Ecommerce InventoryShop App - Tallahassee, FL   June 2024 – Aug 2024

- Engineered a C# console application and migrated it to a full-stack .NET MAUI application, implementing a comprehensive inventory management system with CRUD operations under an MVVM architecture

- Implemented shopping cart functionality featuring real-time price calculations, item management, and checkout

- Built configuration system enabling dynamic tax rates, BOGO feature, item markdowns, and multi-cart wishlist

- Built REST APIs / RESTful WebAPI with Swagger integration to support inventory CRUD operations for distributed systems

Experience

Captainpcparts (eBay Business)/MKJP Enterprises LLC – Fort Myers, FL.   Aug 2022 – Dec 2022
Computer Hardware Technician & Computer Parts Packager

- Streamlined packaging operations to consistently process high-volume orders, regularly reducing daily backlog from 20+ to near-zero/1-3 remaining orders

- Performed comprehensive hardware diagnostics using POST testing, multimeters, and diagnostic tools to verify functionality of CPUs, GPUs, motherboards, and other computer components while preparing parts for shipment