

ALEXANDER ASHMORE

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Education

University of South Florida

Bachelor of Science in Computer Science, GPA: 3.56

August 2019 – December 2023

Tampa, Florida

Relevant Coursework

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|------------------------|--------------------------|---------------------------|--------------------------|
| • Data Structures | • Analysis of Algorithms | • Artificial Intelligence | • Secure Coding |
| • Software Engineering | • Database Design | • Big Data Analysis | • Software System Design |

Projects

Stock Data Visualizer (Individual) | C#, .NET

December 2023

- Utilizes inheritance and polymorphism to make modular components.
- Implements data structures like dictionaries and lists.
- Windows Form App that reads stock data from Excel sheet, displays stock data in candlestick chart, and users can select: start and end date, stock name, and pattern.

Vehicle Inventory Tracking System (Group: 7) | Python

May 2023

- Undertook the full SDLC for the project, taking on the leadership role for documentation.
- Designed a user-friendly, command-line interface system for efficient customer order processing and vehicle inventory management.
- Embraced object-oriented design principles and ensured low coupling and high cohesion for maintainable code.
- Responsible for the team's communication: including scheduling, task assignments, and conflict mitigation.

Online Art Gallery (Group: 2) | Python, SQL

December 2022

- Terminal-based Online Art Gallery, developed as a software development team.
- Developed a robust authentication system with distinct profiles for artists and customers, enabling personalized interactions.
- Played a key role in the project's database design, including entity-relationship diagrams, ensuring efficient data management.
- Employed SQL queries, including inserts, selects, updates, and joins, to power advanced search functionalities.

Neural Networks Project (Individual) | Python

December 2022

- Implemented the LeNet-5 Convolutional Neural Network (CNN) for facial recognition.
- Developed a vanilla Recurrent Neural Network (RNN) for movie rating prediction.
- Elevated understanding of neural network architectures and their real-world applications.

Technical Skills

Languages: C#, C, Python, Java, SQL, C++, HTML, CSS, JavaScript

Frameworks: .NET

Developer/Other Tools: VS Code, Linux, GitHub, Word, Excel, Power Point

Certifications: Foundational C# with Microsoft, Microsoft Office Specialist Master (MOS)