

LOGAN THOMLEY

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Education

University of Florida

B.S. Computer Science

Minor in Statistics

Expected May 2028

GPA 3.89/4.00

Experience

Computing Student Union

May 2025 – Present

Software Engineer

- Collaborated on a 4-person project team to develop internal tools that consolidate and streamline information management across UF's computing student organizations.
- Enhanced a Discord bot in Python to automatically detect event flyers in messages, implementing character recognition functionality with easyOCR to extract text content from club promotional images.
- Participated in testing and debugging sessions to improve OCR accuracy across different flyer designs and image qualities, ensuring reliable data extraction

GATR Robotics

October 2024 – Present

Assistant Programmer and Designer

- Developed autonomous routes in C++ to execute precise movements and game-specific tasks during autonomous.
- Designed the drivetrain for our World Championship robot in Autodesk Fusion 360, optimizing for maneuverability by focusing on acceleration and speed.
- Participated in match strategy discussions and real-time debugging sessions to improve robot behavior and reliability during competitions.
- Contributed to mechanical assembly and integration of robot components, ensuring alignment between CAD designs and physical builds through iterative testing and refinement

Freshman Leadership Engineering Group

September 2024 – May 2025

Collegiate Committee Ambassador

- Collaborate with a team of 9 other freshman engineers to connect undergraduate engineering students with opportunities and resources.
- Present committee initiatives and event plans to a broader team of 50 student leaders, ensuring alignment with organizational goals and member interests

Projects

Stock Market Visualizer | *Python, yfinance, Matplotlib, winotify*

- Developed a Python application to visualize and track stock market data for major tech companies.
- Utilized the yfinance library to gather historical stock data, Matplotlib to generate plots of stock prices over different timeframes (year-to-date, month-to-date, week-to-date), and the winotify library to provide desktop notifications.
- Implemented data processing and visualization, presenting stock trends in a clear and concise graphical format, enhancing user understanding of market fluctuations.

Memory Matcher | *Python, pygame, numpy*

- Designed an interactive memory matching game featuring a 4x4 grid of cards with randomized pairs and flip logic.
- Implemented a responsive game loop with object-oriented design, enabling accurate click detection and match validation, and simplifying future feature integration through modular card classes.
- Integrated and scaled custom card assets and win screens, implementing smooth UI feedback and real-time interactivity.

Technical Skills

Languages: Python, MATLAB

Software: Solidworks (CSWA certified), Autodesk Fusion, Onshape

Libraries/Frameworks: NumPy, Matplotlib, OpenAI, easyOCR, Winotify, yfinance

Relevant Coursework

Courses: Computational Linear Algebra, Programming Fundamentals, Programming for Engineers ion MATLAB, Analytical Geometry and Calculus 3, Computer-Aided-Design (Solidworks)