

Ethan Youmans

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PROFILE	Versatile computer programming student nearing graduation with experience in C, C++, Python, Java, JavaScript, Swift, and Lua. Skilled in system design, applied algorithms, and full-stack development. Project manager and lead developer for a senior iOS networking project, with experience in research and team leadership.
EDUCATION	<i>Bachelor of Computer Science</i> , University of Florida, Gainesville, Florida, December 2025
TECHNOLOGY SKILLS	<i>Languages:</i> C, C++, Python, Java, JavaScript, Swift, Lua <i>Technologies:</i> Linux, React, Electron, Node.js, HTML/CSS, Git, Wireshark, PyTorch, Scikit-Learn, Full-Stack Development <i>Concepts:</i> System Architecture, Algorithm Design, Cybersecurity Fundamentals, Machine Learning, Artificial Intelligence, Data Analysis
EXPERIENCE	Research Assistant , University of Florida, Florida Institute for Cybersecurity Research, January 2025 - May 2025 <ul style="list-style-type: none">Conducted independent network analysis of Google Maps and Life360 location sharing using packet sniffers, identifying patterns in call timing and behaviorDesigned and executed repeated experiments, analyzed results, and summarized findings, contributing directly to the development of the senior iOS projectCollaborated with a graduate advisor to refine methodology and support additional research efforts, including reviewing and improving questionnaires
PROJECTS	Gaming Skill Tree — JavaScript, React, Electron, Node <ul style="list-style-type: none">Built a desktop application to generate and manage a visual skill tree for video game backlogs, complete with node-based circular tree layoutIntegrated Steam and RAWG APIs to dynamically pull images and metadata for each game, enhancing usability and visual appealReleased fully functional application on GitHub, available for download and use Sudoku Coloring — Python <ul style="list-style-type: none">Developed a Sudoku solver by transforming the grid into a graph and applying a coloring algorithm to assign values efficientlyImplemented both a greedy algorithm and a custom backtracking algorithm inspired by Wave Function Collapse algorithms to handle constraint propagation and conflicts Location Sharing Detection Application — (In Progress) Swift, Python <ul style="list-style-type: none">Developing an application that combines a packet sniffer and machine learning model to analyze network packetsMy role as project manager and lead application developer is to set up the team for overall success and to manage the application development