

# 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** *Bachelor of Computer Science*, University of Florida, Gainesville, Florida,  
**December 2025**

**TECHNOLOGY SKILLS** *Languages:* C, C++, Python, Java, JavaScript, Swift, Lua  
*Technologies:* Linux, React, Electron, Node.js, HTML/CSS, Git, Wireshark, PyTorch, Scikit-Learn, Full-Stack Development  
*Concepts:* 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*

- Conducted independent network analysis of Google Maps and Life360 location sharing using packet sniffers, identifying patterns in call timing and behavior
- Designed and executed repeated experiments, analyzed results, and summarized findings, contributing directly to the development of the senior iOS project
- Collaborated 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*

- Built a desktop application to generate and manage a visual skill tree for video game backlogs, complete with node-based circular tree layout
- Integrated Steam and RAWG APIs to dynamically pull images and metadata for each game, enhancing usability and visual appeal
- Released fully functional application on GitHub, available for download and use

***Sudoku Coloring** — Python*

- Developed a Sudoku solver by transforming the grid into a graph and applying a coloring algorithm to assign values efficiently
- Implemented 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*

- Developing an application that combines a packet sniffer and machine learning model to analyze network packets
- My role as project manager and lead application developer is to set up the team for overall success and to manage the application development