Andrew Stephenson

amstephenson3@crimson.ua.edu | 618-521-3800 | www.linkedin.com/in/a-m-stephenson

EDUCATION

Bachelor of Science in Computer Science, December 2025
The University of Alabama, Tuscaloosa, AL
Honors College
GPA: 4.00/4.00

SKILLS

Python, C++, C, C#, Java, HTML, MongoDB, Microsoft Office suite, ROS, Ardupilot, Mavlink, Docker, Ubuntu, VirtualBox, Power BI, Visual Studio, MATLAB, Git, Jetson Nano, RTMaps, Gazebo and Unity

SELECT COURSEWORK

Data Science (CS 451), Reinforcement Learning (CS 484), Operating Systems (CS 300), Database Management Systems (CS 301), Data Structures and Algorithms (CS 201), Introduction to Software Engineering (CS 200) and Microcomputers (ECE 383)

RELEVANT EXPERIENCE

Data Science Internship, COLSA Corporation, Huntsville, AL, June 2025 – Present

- Developed an ATAK server and corresponding clients to send and receive data
- Utilized Docker and Meshroom to reconstruct bridge models using photogrammetry

Data Science Internship, COLSA Corporation, Huntsville, AL, June 2024 – August 2024

- Briefed daily on project progress and blockers using agile methodologies
- Set up a drone simulation environment with Gazebo, Ardupilot, ROS, and Mavlink software
- Developed Gazebo worlds and ROS packages from scratch
- Implemented Python algorithms, including A* for navigation and neural networks for autonomous movement, utilizing both positional and lidar data
- Formatted extensive bash scripts to reconfigure simulations
- Utilized Docker and VirtualBox to streamline testing and development processes

Sensors Subteam Member, EcoCAR EV Challenge, Tuscaloosa, AL, September 2022 – Present

- Assignments with a Gitlab task board to complete tasks in a timely manner
- Development using MATLAB and Simulink to create a working sensor fusion algorithm
- Simulation with driving scenario designer and unreal engine through MATLAB
- Conversion of working sensor fusion algorithm to Python using RTMaps

CAMPUS INVOLVEMENT

Sigma Alpha Mu Tau Chapter, Fall 2023 – Present
EcoCAR EV Challenge, Fall 2022 – Present