Chase S. Compton

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EDUCATION

The University of Alabama **Tuscaloosa, AL**

Bachelor of Science in Computer Science | *Bachelor of Arts in Mathematics* *May 2025*

- **GPA**: 4.0/4.0
- **SAT**: 1550/1600
- **Awards/Honors:** National Merit Scholar, Honors College, U.S. Presidential Scholar Nominee

RELEVANT EXPERIENCE

Human Technology Interaction Lab **Tuscaloosa, AL**

Undergraduate Research Assistant *May 2023 - Present*

- *Radar-Enabled Human-Vehicle Interaction*: Writing software in Python and ROS to control vehicles in order to simulate real-world human-vehicle interactions in a safe environment
- *Radar Sensing for Sign Langauge Driven Human-Computer Interaction*: Developing software used to gather sign language data used in machine learning algorithms that can translate a person's signs

Brain-Drone Race **Tuscaloosa, AL**

Developer *November 2022 - April 2023*

- Used machine learning software and EEG data from the Neurosity Crown to create Python scripts to control and race drones via a user's brain activity (DailyBeast Article | Mind Over Machine Video)
- Created a user interface with React to display information to users in real-time about their focus and calmness levels with data received from the Neurosity Crown

Culverhouse Investment Management Group **Tuscaloosa, AL**

Senior Analyst *October 2021 - Present*

- Perform company and industry-specific research within a 50-member student group that manages an equity-only portfolio of more than $1.7 million using a value-investing approach supported by quantitative analysis

West Virginia Division of Natural Resources **Charleston, WV**

Intern for the Deputy Chief of Administration *May 2022 - August 2022*

- Developed, deployed, and maintained an invoice workflow software via Google Appsheets used by 35 state parks and ~200 employees that updates invoice status via email and allows users to monitor payment progress

PERSONAL PROJECTS

Accuracy Analysis of Management Guidance

- Used the Benzinga API and a web scraper to gather 10+ years of guidance data from 2000+ public equities
- Processed the guidance along with the actual revenues with Pandas in order to analyze the accuracy of companies

IMC Prosperity 2023

- Placed in the top 5% of an algorithmic and manual trading competition that simulated real-world markets
- Used Python and Pandas to create and optimize a trading algorithm that takes advantage of the bid-ask spread
- Used the log-adjusted Bellman-Ford algorithm in order to find the optimal trades during the manual challenge

Daily Playlist

- Leveraged Spotify's API in order to create a personal playlist made up of a user's top songs and recommendations that are updated daily in order to accelerate music discovery

Chess Implementation

- Created the classic game and its complex rules in Python using OOP techniques and the Pygame module

SKILLS & INTERESTS

Skills: Python, C++, Java, JavaScript, HTML, CSS, SQL, Pandas, Flask, React, Version Control

Interests: Formula 1, Chess, Mountain Biking, Weightlifting, Movies, TV, and Music