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, U.S. Presidential Scholar Nominee

RELEVANT EXPERIENCE

DevClarity   **Birmingham, AL**
Internship   *July 2023 - Present*
- Refining and optimizing OpenAI API calls for DevClarity Pulse which provides users with richer, actionable data extracted from aggregated developer input, manager feedback, and specialized development data
- Conducting comprehensive industry and company-specific research to provide strategic insights for the start-up

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 autonomous vehicles to simulate real-world human-vehicle interactions in a safe environment

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 in real-time about focus and calmness levels

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

[TurnOne](#)
- Designed and engineered a web application using a comprehensive tech stack (Next.js, TypeScript, TRPC, Prisma, Tailwind CSS, and Clerk) which enables users to share their Formula 1 opinions effortlessly

2048 Game & AI
- Built a recreation of the 2048 game using Python and Tkinter, enhanced with an AI powered by Monte Carlo Tree Search, achieving a greater than 30% win rate

IMC Prosperity 2023
- Placed in the top 5% of an algorithmic and manual trading competition that simulated real-world markets
- Optimized a trading algorithm that takes advantage of the bid-ask spread and used the log-adjusted Bellman-Ford algorithm to find the optimal trades during the manual challenge

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 over time, industry, and market capitalization

SKILLS & INTERESTS

Skills: Python, C++, Java, JavaScript & TypeScript, React, Pandas, ROS, Linux, Git, Web Development
Interests: Formula 1, Mountain Biking, Chess, Soccer, Video Games, Movies, TV, and Music