

# Chase S. Compton

[LinkedIn](#) | [cscompton1@crimson.ua.edu](mailto:cscompton1@crimson.ua.edu) | [Portfolio](#) | [GitHub](#)

## 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

*Software Engineer Intern & Research Intern*

July 2023 - Present

- Contributing to early-stage product development and testing using the Ruby on Rails full-stack framework by refining and optimizing content generation strategies for DevClarity Pulse
- Collaborating with engineering and business leaders using a CI/CD development strategy
- Conducting comprehensive industry and company-specific research to provide strategic insights for the start-up

### Human Technology Interaction Lab

Tuscaloosa, AL

*Undergraduate Research Assistant*

November 2022 - Present

- *Interactive Brain-Computer Interfaces:* Applying machine learning tools, such as TensorFlow, and real-time EEG data to develop interactive experiences for users to explore and engage with neuroscience
- *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:* 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](#))

### 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
- Created an internal site to streamline filesharing and resource locating via Google Sites

## 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

### External Aimbot for Counter-Strike: Global Offensive

- Developed a CS:GO external aimbot in C++, utilizing a memory class to extract and write essential data to the computer's memory, while applying mathematical calculations to determine precise aiming angles

## SKILLS & INTERESTS

**Skills:** Python, C++, JavaScript/TypeScript, Ruby, SQL, React, Pandas, ROS, Linux, Git, HTML, CSS

**Interests:** Formula 1, Mountain Biking, Chess, Soccer, Video Games, Movies, TV, and Music