

# AINSLEY FREEDMAN

Columbus, OH (willing to relocate)

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## Education

### Emory University

*Bachelor of Science in Mathematics/Computer Science*

**August 2023-May 2027**

*Atlanta, GA*

## Relevant Coursework

Data Structures and Algorithms, Analysis of Algorithms, Computer Architecture/Machine Level Programming, Machine Learning, Computer Science Practicum, Discrete Math, Calculus I & II, Multivariable Calculus, Linear Algebra, Numerical Analysis, Mathematical Statistics I

## Experience

### CAV (Cognition and Visualization) Lab

**March 2025 – Present**

*Undergraduate Research Assistant*

*Atlanta, GA*

- Collaborated with graduate researchers to explore ways to identify and mitigate confirmation bias in interactive visual environments by analyzing user behavior in web-based visual tasks.
- Adapted and customized an existing D3.js web application by modifying data-binding logic and interaction handlers in HTML, JavaScript, and D3.js, allowing users to dynamically explore visual stimuli and record behavioral responses.
- Implemented a client-side logging system using JavaScript event listeners to track user interactions, enabling data-driven analysis of cognitive bias patterns.

### The Home Depot

**May 2025 – July 2025**

*Software Engineer Intern*

*Remote*

- Built and deployed a production-ready offline switch for POS systems by creating a simulated offline mode that allowed testing and operation without disconnecting network hardware, reducing register recovery time by 37.5% (4→2.5 mins).
- Created a Grafana dashboard by integrating Prometheus metrics to visualize real-time register and store health, empowering store leaders to proactively identify and resolve technical issues.
- Conducted end-to-end testing on registers at the Marietta Technology Center and in a live store environment, validating new features under enterprise-level security standards and real-world network conditions.

## Technical Projects

### TrAIding Post | *Next.js, Tailwind, Supabase, JavaScript, Python (data/API integration)*

**September 2025-Present**

- Engineered dashboards translating multi-agent AI outputs into transparent, evidence-backed trading insights.
- Optimized front-end architecture using feedback loops, LLM-driven APIs, and real-time data visualization to improve interpretability and scalability.

### ChaiTunes A Cappella | *Next.js, Tailwind, EmailJS, Supabase, Vercel*

**August 2025-September 2025**

- Developed and deployed a serverless full-stack website for Emory's ChaiTunes A Cappella using Next.js and Supabase for secure authentication, data storage, and role-based content updates.
- Engineered a responsive, production-ready interface with Tailwind CSS and automated outreach workflows via EmailJS, enabling seamless external contact and scalable deployment on Vercel.

### Analyzing Antisemitism: Insights with ML | *Matplotlib, pandas, scikit-learn*

**January 2025-February 2025**

- Processed and modeled antisemitism-related datasets using pandas and scikit-learn to identify patterns and forecast future trends.
- Visualized results with Matplotlib and presented insights to the American Jewish Committee (AJC), contributing data-driven recommendations for advocacy efforts.

## Core Competencies and Technical Skills

**Languages:** Java, Python, C, JavaScript, HTML, CSS, SQL (SQLite)

**Tools/Technologies:** Git, React, Bootstrap, Tailwind, Phaser.js, jQuery, Angular, REST APIs, Figma, Matplotlib, pandas, scikit-learn, MATLAB

**Core Competencies:** SDLC, Agile Methodology, Communication, Customer-Focused Solutions, Team Collaboration, Leadership, Problem Solving, Time Management, Organization, Frontend Development

## Leadership and Community Engagement

### Girls Who Code

**September 2024 – Present**

*Risk/Event Manager, Instructor*

*Atlanta, GA*

- Led weekly coding classes for ~20 girls, creating and presenting instructional content.
- Mentored students to build coding skills and confidence in problem-solving.