

# 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

- Enhanced a D3.js visualization tool using JavaScript and D3.js, fostering dynamic manipulation of visual stimuli for behavioral experiments, thereby improving researcher efficiency and experiment accuracy.
- Engineered a client-side event logging framework with JavaScript to record and export structured interaction data, streamlining analysis workflows for research teams.
- Expanded the research platform's analysis capabilities by integrating behavioral tracking with custom front-end tools, which helped uncover differences in how users interpret different visual conditions.

### PROJECT Emory

September 2024 – Present

Project Engineer

Atlanta, GA

- Collaborated in an Agile, cross-functional team to develop an HR dashboard for Odyssey Family Counseling, enhancing internal operations and data accessibility.
- Implemented the performance evaluation form and optimized reviewer data display within a Next.js and Tailwind workflow, ensuring accurate, timely data flow and improved system efficiency.
- Contributed to sprint planning, code reviews, and iterative feature development while supporting containerized development environments using Docker, resulting in a reliable and user-friendly interface.

### The Home Depot

May 2025 – July 2025

Software Engineer Intern

Remote

- Built and deployed a production-ready offline switch for POS systems in Java 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 real-time Grafana dashboard by integrating Prometheus metrics through backend services written in Java, empowering store leaders to proactively diagnose register and store health.
- Conducted end-to-end testing on registers at the Marietta Technology Center and in a live store environment, validating new Java-based POS features under enterprise-level security standards and real-world network conditions.

## Technical Projects

### BranchingOutAI | Next.js, Tailwind, JointJS, Supabase, Python, LangGraph, Vercel

November 2025 – Present

- Built an interactive career path visualization tool with moveable nodes that display role descriptions and dynamically map trajectories based on user interests.
- Integrated AI-powered recommendations to suggest personalized career paths and highlight key skills, combining data-driven guidance with intuitive visualization.

### TrAIding Post | Next.js, Tailwind, Supabase, Python, LangGraph, Vercel

September 2025 – Present

- Designed and implemented the core front-end architecture for a multi-agent trading platform, delivering an intuitive interface that transforms complex agent insights into actionable user decisions.
- Expanded platform capabilities by enabling users to create and configure custom agents.
- Integrated LLM-powered APIs with Supabase to deliver personalized, interpretable trading recommendations at scale.

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

January 2025 – February 2025

- Cleaned, modeled, and analyzed antisemitism-related datasets using pandas and scikit-learn to uncover statistical trends and predictive insights.
- Delivered visual analytics to the American Jewish Committee (AJC), driving data-informed recommendations that strengthened advocacy and community response strategies.

## Core Competencies and Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C, SQL, R, HTML, CSS

Web Development: React, Angular, Tailwind, Bootstrap, jQuery, Figma

Data/AI/ML: pandas, scikit-learn, PyTorch, LangChain, LangGraph, Matplotlib, MATLAB

Tools/Platforms: Git, Docker, FastAPI, Supabase, Vercel, REST APIs

Core Competencies: Full-Stack Development, SDLC, Agile Methodology, Prompt Engineering, Problem Solving, Customer-Focused Solutions, Team Collaboration, Leadership, Communication, Time Management, Organization

## Leadership and Community Engagement

### Girls Who Code

September 2024 – Present

Risk/Event Manager, Instructor

Atlanta, GA

- Led weekly coding classes for ~20 girls, designing interactive lessons that built programming skills and fostered curiosity in computer science.
- Mentored students to develop problem-solving confidence and independent coding abilities, empowering them to complete projects and explore creative solutions.