

# 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

### The Home Depot

*Software Engineer Intern*

**May 2025 – July 2025**

*Remote*

- Built and deployed a production-ready offline switch for POS systems, reducing register recovery time by 37.5% (4 mins → ~2.5 mins) and improving uptime during degraded network states.
- Created a Grafana dashboard providing store leadership with real-time visibility into register and store status, enabling proactive monitoring and decision-making.
- Successfully tested new features on real registers at the Marietta Technology Center and in a live Home Depot store, ensuring enterprise-level security and reliability.

### Self-Employed

*Mathematics Tutor*

**June 2023 – August 2024**

*New Albany, OH*

- Accelerated math learning for 9 students by designing individualized approaches, demonstrating the ability to identify user needs.
- Developed a custom interactive multiplication table using HTML, CSS, and JavaScript to reinforce learning and enhance students' math comprehension.

## Technical Projects

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

**August 2025-Present**

- Engineered and deployed a full-stack website using Next.js for the frontend and Supabase for backend services, enabling data storage and authentication.
- Designed a clean and responsive UI to improve site usability across desktop and mobile platforms.
- Deployed and maintained the application to ensure performance, reliability, and scalability for long-term use.

### The CompPendum Blog | *HTML, CSS, Bootstrap, JavaScript, Node.js*

**September 2024-Present**

- Developed a computer science blog to share with other students and learners interested in computer science.
- Utilized HTML, CSS, and Bootstrap for frontend and Node.js for backend to enable email submissions.
- Fostered a learning community by providing a platform for engagement, question-asking, and support.

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

**January 2025-February 2025**

- Leveraged data analysis and machine learning techniques to identify patterns and forecast future trends.
- Designed and implemented visualizations with Matplotlib Pyplot to communicate findings to diverse audiences.
- Shared insights and projections with the Cincinnati chapter of the American Jewish Committee (AJC), contributing to ongoing discussions and initiatives aimed at addressing campus antisemitism.

## 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

*Risk/Event Manager, Instructor*

**September 2024 – Present**

*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.