Ainsley Freedman

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Education

Emory University **August 2023-May 2027**
Bachelor of Science in Mathematics/Computer Science *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*

- Modernized and customized a D3.js visualization tool, improving usability and enabling dynamic manipulation of visual stimuli for behavioral experiments.
- Engineered a client-side event logging framework to record and export structured interaction data, streamlining analysis workflows for research teams.
- Strengthened the research platform's analytical depth by integrating behavioral tracking that revealed measurable differences in user interpretation across visual conditions.

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, Python (data/API integration), 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.

ChaiTunes A Cappella | *Next.js, Tailwind, EmailJS, Supabase, Vercel* **August 2025-September 2025**

- Built and deployed a production-grade full-stack website for Emory's ChaiTunes A Cappella, implementing secure authentication and content management through Supabase for streamlined group operations.
- Developed a responsive, accessible interface with Tailwind CSS and automated outreach workflows using EmailJS, enhancing external engagement and simplifying event coordination.

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, HTML, CSS
Web Development: React, Angular, Tailwind, Bootstrap, jQuery, Phaser.js, Figma
Data/AI/ML: pandas, scikit-learn, LangChain, LangGraph, Matplotlib, MATLAB, SQL
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.