

ALEXANDER FREEDMAN

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EDUCATION

University of Florida, College of Liberal Arts and Sciences

2026 - Present

- B.S. in Data Science, Minor in Computer and Information Science and Engineering
- Cumulative GPA 4.00

Marjory Stoneman Douglas High School, Parkland, FL

May 2026

- Weighted GPA 5.35 (unweighted 4.00), class rank 13/813 (top 2%)
- AP Scholar with Distinction (2025, 2026): 14 AP exams scored 5

EXPERIENCE

University of Florida, Dept. of Engineering Education

Aug 2026 - Present

Undergraduate Researcher

Mentor: Prof. Ashish Aggarwal

- Research agentic AI tutoring on Cipher, UF's Canvas learning assistant that guides students with hints instead of answers
- Research a persistent memory layer so Cipher remembers each student's progress, misconceptions, and past sessions
- Benchmark Cipher before expanding its agent harness; explore human-in-the-loop review where instructors correct AI replies

United States Installation Group, Boca Raton, FL

Jun - Jul 2025

Software Engineering Intern

- Rotated through billing, auditing, travel, and warehouse ops to find manual bottlenecks, then shipped automation with the IT team
- Built the Floor-Plan Automation Tool with IT (see Projects), cutting a 3-hour manual task to seconds
- Automated financial reconciliations and data sorting with VBA, replacing manual labor

LEADERSHIP & ACTIVITIES

IEEE Signal Processing Society, University of Florida

Aug 2026 - Present

Junior Chief of Operations

- Manage the chapter's internal organization: schedule meetings, reserve rooms, send reminders, and track attendance
- Support setup and execution of chapter events

Marjory Stoneman Douglas High School DECA

May 2025 - May 2026

President

- Led a 700+ member chapter (7th to 6th largest in the world) with a ~40-person officer team and ~\$300,000 in annual activity
- Founded Partner Pathways (2nd in the world, ICDC 2026; 45 partners, \$17,888 net) and Vision to Venture (Top 10, ICDC 2025)

PROJECTS

Personal Finance Dashboard

Aug 2026 - Present

- Built a personal finance dashboard (React, TypeScript, Postgres) that syncs 3 institutions through the Plaid API
- Wrote a daily sync pipeline into an 11-table schema through a write-only endpoint, with bank credentials locally hosted
- Built balance reconciliation that checks opening balance plus posted transactions against closing balance, flagging gaps and timing

Baseline (Concussion Screening)

Oct 2026

- Built a concussion screen with a team that tests balance, reaction time, and eye tracking against each athlete's own baseline
- Tuned the scoring cutoff in simulation, cutting false Remove-from-play calls from 5-24% to 0.1-5.5% of healthy athletes
- Shipped a free-tier PWA (React, Firebase, MediaPipe) where testers see only the call and coaches see the full team record

Floor-Plan Automation Tool

Jun 2025

Built during the software engineering internship

- Saw an employee hand-editing floor plans in Word for up to 3 hours each; built a web app that edits the SVG files directly
- Built it in JavaScript to automate rendering, hatching, and page trimming, so each plan takes seconds
- Deployed it into daily operations with IT; the CEO projected it would save 800 labor hours annually

Emergency Risk Assessment

Oct 2024

1st Place, Best Emergency Preparedness, PlutoHacks 2024

- Built with a team a web app that rates elderly and disabled users' disaster risk from a survey and their location for relief groups
- Pulled live National Weather Service alerts by location onto a Leaflet.js radar map; built the Bootstrap front end
- Designed for low-vision and blind users (high contrast, large fonts, read-aloud survey); results feed a Firebase admin site

HONORS & AWARDS

- Scholarships: Florida Bright Futures; University of Florida Ed Tancer Good Deed; City of Parkland Community Advisory 2026
- 3rd place, KnoPro & KPMG AI Business Revolution Challenge (Broward County): AI framework for Mathnasium. 2024

SKILLS & CERTIFICATIONS

Technical: Python, C, C++, JavaScript, Java, SQLite, HTML

Certifications: Microsoft Office Specialist (Word, Excel, PowerPoint), Intuit QuickBooks Online Certified User, Entrepreneurship and Small Business (ESB), IC3 Digital Literacy Certification (Level Master), CompTIA IT Fundamentals+ (ITF+), NAFTrack Certified