

AADI PENDSE

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OBJECTIVE

Computer Science student at WPI with a strong foundation in Applied Mathematics, seeking Summer 2027 internships in Computer Engineering, Software Engineering, and Artificial Intelligence. Builds software ranging from low-level systems to full applications across Python, C, and data-driven systems, with an emphasis on correct, well-structured code from implementing numerical algorithms from scratch to building tools that handle messy real-world input reliably. Has independently run an e-commerce business since 2022, developing the ability to ship, iterate, and own outcomes end-to-end.

EDUCATION

Worcester Polytechnic Institute — Worcester, MA

Aug 2025 – May 2029

Bachelor of Science, Computer Science (foundation in Applied Mathematics) | GPA: 3.84 (as of May 2026)

Activities: VEXU Robotics

Hopkinton High School — Hopkinton, MA

Graduated June 2025

GPA: 3.8

TECHNICAL SKILLS

Programming:	Python, Java, C/C++, MATLAB, Swift, SQL, Racket, JavaScript
Web & Tools:	HTML, CSS, Git/GitHub, responsive web design, serverless cloud deployment
Core Areas:	Data Analysis, Quality Assurance (QA), Algorithms, mathematical programming, systems troubleshooting, hardware integration, technical documentation

EXPERIENCE & LEADERSHIP

VEX Robotics Club, WPI — Build Team Member & Documentation Custodian

2025 – Present

- Support robot build activities while maintaining organized engineering notes on design decisions, build changes, testing results, and project progress.
- Preserve shared project knowledge to strengthen troubleshooting, design iteration, and collaboration across mechanical, electrical, and programming contributors.

Independent E-Commerce Seller — Self-Employed

Jun 2022 – Present

- Built and managed an online resale operation covering pricing, product listings, customer communication, inventory decisions, and order fulfillment.
- Maintain consistent quarterly sales volume while responding to buyer inquiries within 24 hours and delivering a strong customer experience.
- Apply entrepreneurial judgment, digital marketing, and analytical pricing decisions to improve product visibility and sales performance.

SELECTED PROJECTS

HTML/CSS Resume Website

July 2026 – Present

- Architected and deployed a responsive personal portfolio using a serverless JAMstack workflow to deliver high-availability, zero-maintenance web hosting.
- Configured a continuous integration and deployment (CI/CD) pipeline via GitHub integration for automated build triggering and deployment on code push.
- Enforced security and performance best practices by utilizing Netlify's edge CDN for global content delivery and automatic TLS/SSL certificate management.

Distributed Life-Safety & Special-Hazard Test Infrastructure

June 2026 – Present

- Integrated a Potter PFC-4410G3 multi-hazard releasing master panel with a 10-Amp PSN-106 remote power supply to establish a distributed system architecture that integrates remote execution units over an Ethernet transport layer to simulate real-time safety-critical protocols.
- Implemented time-synchronized output logic across six independent channels, using hardware state configurations to achieve precise wave-pattern synchronization.
- Built real-time event-monitoring logic utilizing dry-contact interrupts and cross-zoned conditional rules to execute deterministic emergency protocols.
- Constructed mathematical load models and diagnostic routines to analyze power consumption limits, isolate system faults, and verify operational boundary conditions.

Reduced Row Echelon Form (RREF) Matrix Solver | C

May 2026 – Jul 2026

- Developed a C program that calculates matrix RREF using Gaussian elimination and documented the algorithm with worked examples and sample outputs.

GPA Calculator | Python

Feb 2025 – Apr 2025

- Built a Python application to calculate GPA from course grades and credits, applying structured logic, user input handling, and validation.

Exceptional references available upon request.