Alexander Cavoli

Harwinton, CT 06791 | (860) 299-4995 | cavola@rpi.edu | cavoli.tech

EDUCATION

Rensselaer Polytechnic Institute (RPI) — Troy, NY
B.S. Computer Science & Mathematics Dual Major; GPA: 3.92; Dean's Honors List — *2024 – Present*

Lewis Mills High School — Burlington, CT
High School Diploma; GPA: 4.32; National Honor Society; High Honor Roll — *Class of 2024*

TECHNICAL SKILLS

Languages: Python, C++, C, C#, HTML/CSS, JavaScript, SQL, PHP
Tools: Git, Linux, VS Code, REST API Development, CloudVision Platform
Interests: Systems Programming, AI Integration, Web Development, Cybersecurity

EXPERIENCE

Part-Time Startup Developer — PresentationAssistants.com — Feb 2025 – Present
Troy, NY

- Developed alongside Professor Jidong Xiao to build a modern full stack presentation platform.
- Implemented real time collaborative code editor enabling presenters and students to edit/compile/run code in browser.
- Developed secure authentication with hashed passwords and login attempt tracking.
- Built an admin dashboard for user, project, and scheduling oversight.

Arista Networks — CloudVision Portal Team Intern — June 2024 – Aug 2024
Remote / Santa Clara, CA

- Rebuilt and modernized legacy API integrations for CloudVision Portal.
- Enhanced internal tool functionality to improve data flow and reliability.
- Worked with senior developers to test and deploy production used features.

PROJECTS

ByteBites.Tech — RPI Hackathon Winner | *Node.js, JS, CSS* — Nov 2025

- Built a campus dining web platform with custom filtering and AI feedback.
- Reverse engineered Sodexo's closed source API to scrape menu data.
- Implemented allergy filters, meal preference filters, and goal based nutrition matching.

Connect-4 AI Solver — Minds and Machines Winner | *Python* — Nov 2025

- Built a minimax based Connect-4 AI with alpha-beta pruning and heuristics.
- Integrated with competition moderator for bot-vs-bot tournament.
- Won against 7 other competing AI programs.

Critter Capture — Hackathon Project | *Web, AI Integration* — Nov 2024

- Created a wildlife gamification web app with photo uploads, scoring, and species detection.
- Integrated Claude AI to classify animals and generate auto summaries.
- Added an interactive map and leaderboard for user engagement.

Personal Website | *HTML/CSS, DNS* — 2025 – Present

- Created a personal website putting projects, resume, GitHub, LinkedIn, and contact information into one place.
- Managed domain configuration and DNS routing for the custom domain `cavoli.tech`.

LEADERSHIP & ACTIVITIES

HackRPI 2024 & 2025 (Team Lead)
RPISEC (Computer Security Club)
RPI Chess Club