Amelie Fairweather
Charlotte, Vermont
Ameliefairweather@cvsdvt.org | 802-489-8855

Champlain Valley Union High School | University of Vermont | Vermont state university
High school diploma (expected May 2027)
Gpa: 4.1

PRESENT EMPLOYMENT/PARTICIPATION

HackClub | Non profit coding organization | 2021 - present
- Built and deployed full-stack web applications using JavaScript, HTML/CSS, and Python
- Participated in 10+ hackathons, including events hosted at SpaceX, Duolingo, and Figma
- Mentored 20+ students in web development and GitHub workflows
- Led and hosted technical AMAs with startup founders and engineers
- I partnered with Girls Who Code to teach girl scouts in New York to code.

Volunteer firefighter | Charlotte Fire Department | 2025 - present
- Trained in EMS and fire safety procedures
- Commit 5–6 hours weekly to emergency response and training

Team member | Shelburne Folinos | 2024 - present
- Trained and onboarded 3+ new employees
- Developed strong customer service and teamwork skills in a fast-paced environment

Founder and president | Her Education Required | 2025 - present
- Founded a student-led initiative advocating for inclusion of women's history in school curriculum
- Built and deployed hereducation.org
- Raised $730+ and organized sponsored community events
- Presented to school boards, administrators, state senators, and representatives.
- Featured by WCAX and 5+ other media outlets

Assistant teacher | software programming & data science at CVU | 2025 - present
- Assisted in teaching programming and data science courses
- Supported students in using GitHub and deploying projects
- Collaborated with teachers on responsible AI use in education

AWARDS
- Winner of the 2025 congressional app challenge
- Gold medalist of the 2026 VT state STEM fair
- Society of women engineers award

PAST/PRESENT PROJECTS
- Engineered and deployed a multi-platform ride-sharing ecosystem consisting of three independently deployed yet fully integrated codebases.
- Engineered and deployed a multi-source weather safety prediction platform integrating thirteen independently sourced yet fully synchronized data providers, featuring AI-powered

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conversational analysis, multi-factor road safety assessment algorithms, and predictive analytics for school closures and flood warnings across Vermont's diverse geographic regions.

Hackathons

- Built interactive Blender models during a SpaceX-hosted hackathon.
- Collaborated with a multidisciplinary team under the guidance of a professional engineer at SpaceX, to develop a 3D rocket launch simulation game.
- Co-developed a downloadable productivity application ("Meme Space") designed to help students maintain focus; awarded **Best Team Project**.

Code

- Designed, built, and deployed websites for local businesses and organizations, including EH Landworks and Spruce Peaks.
- Currently developing **Weather Bird**, an AI-powered weather platform focused on predicting road safety risks, snow days, and flooding.
- Built and deployed multiple production websites, including **hereducation.org**, **ridesforyou.org**, and **afairweather.org**.
- Kode With Klossy App Development Scholar (alumna).

SKILLS
Programming: JavaScript, HTML, CSS, Tailwind, Python, TypeScript
Familiar: Java, C++, Swift, PostgreSQL
Tools: GitHub, VS Code, Replit, Supabase, Vercel, Railway
Academics: **AP Chemistry, AP Biology, AP Calculus, physics**
Leadership: Public speaking, event planning, fundraising