Catherine V.C. Patton

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LinkedIn: linkedin.com/in/catherinevcarpenter | Portfolio: https://cvcpatton.github.io/index.html

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Professional Summary

Motivated career-changer with 20+ years of professional experience in higher education and biotech. Currently completing a Certificate in Programming (Dec 2025) with hands-on experience in Python, Java, SQL, HTML/CSS, and JavaScript. Skilled in building, testing, and deploying applications, with strong team-oriented collaboration and communication skills. Seeking an entry-level Software Developer/Junior Developer role to apply technical expertise and deliver results.

Technical Skills

Languages: Python, Java, JavaScript (ES6), HTML, CSS, SQL, C, x86 Assembly
Frameworks/Tools: Flask, React, Bootstrap, SQLite, SQL (MySQL, PostgreSQL), Git/GitHub (Version Control), PyCharm, VS Code, IntelliJ, Postman, Jira, MS Access/Office Suite
Concepts: Object-Oriented Programming (OOP), Data Structures and Algorithms, REST APIs, DOM Manipulation, Responsive Web Design
Other: API Integration, Scrum/Agile Development, Unit Testing, Debugging, Project/Technical Documentation, Technical Communication, Process Improvement, Remote Collaboration

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Software Development Projects

Task Manager (In Progress, 2025) | Full-Stack Web App | Python/Flask, JavaScript, HTML/CSS

- Building an interactive task manager with CRUD operations and responsive UI, allowing users to add, edit, and manage daily tasks with persistent storage and dynamic rendering.

- Implementing RESTful routing, input validation, and flash messaging for a smooth, responsive user experience.

Denver Nightsky Helper (Capstone Project, In Progress, Fall 2025) | Python Application

- Designing a program that calculates sunset, "dark sky," and sunrise times for Denver-area stargazing dates.

- Integrates Skyfield library for astronomical data and visibility of planets/stars (API-style data retrieval).

- Implements Python data structures and control flow for user interaction and data management.

- Provides CSV file I/O for saving multiple date results into a stargazing trip log.

Dog Shelter Matchmaker (Capstone Project, July 2025) | Java Application

- Developed a quiz-based app to match adopters with shelter dogs using a scoring algorithm.

- Applied OOP design including inheritance, encapsulation, and polymorphism.

- Implemented file I/O with multiple CSV databases and built menu-driven interface with input validation.

- Delivered accurate breed/dog matching logic, user contact tracking, and adoption appointment prompts, with unit testing and debugging to validate program accuracy and reliability.

Personal Portfolio Website (October 2025) | HTML/CSS/JavaScript

- Designed and deployed a responsive personal portfolio site showcasing programming projects.

- Includes GitHub repository links and live or video demos for hands-on review by employers.

Education and Training

Certificate in Programming (Computer Science) (Expected December 2025)
Front Range Community College | Westminster, CO

Bachelor of Arts – English
University of Washington | Seattle, WA

Relevant Professional Experience

Senior Administrative Assistant | Edgewise Therapeutics, Inc. | 2021–2023

- Supported cross-functional teams (executive, accounting, legal) with systems and workflows.

- Streamlined processes for contracts, invoices, and on-boarding, including problem-solving and troubleshooting team issues.

- Served as software subject matter expert/super user, training new staff on contract, procurement, and intranet tools, improving adoption and reducing on-boarding time.

Administrative Assistant/Manager | Ruffalo Noel Levitz | 2006–2020

- Ensured accuracy and consistency of technical documentation by editing and formatting 8–10 consultant reports per week.

- Coordinated and managed digital assets for 90+ national conference presentations annually, ensuring correct formatting, version control, and availability via web portal and conference app.

- Trained and supervised staff on documentation standards and template usage, improving report quality and consistency across the organization.

- Improved efficiency through process automation and database management, including updating corporate templates and guiding consultant adoption of new software tools.

Scheduling & Course Information Specialist | Seattle University | 2001–2005

- Administered Datatel/Colleague database updates of course information and managed classroom scheduling for 700+ class sections per term.

- Developed and delivered custom reporting tools to provide academic leadership with actionable registration, room usage, and enrollment data.

- Coded and maintained degree audit logic in the student information system, supporting accurate transfer credit evaluations and graduation tracking.

Note: Full work history available upon request