

Catherine V.C. Patton

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Professional Summary

Backend-focused software developer with hands-on experience building full-stack applications using Python, Java, and JavaScript. Recently completed formal programming training and developed multiple deployed applications involving REST APIs, relational databases, and data processing workflows. Seeking a junior software engineering role focused on backend or full-stack development, particularly in data-driven or systems-oriented environments.

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, Render, 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

Software Development Projects

Task Manager (November 2025) | Full-Stack Web App | Python/Flask, HTML/CSS, Render

- Built 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.
- Implemented RESTful routing, input validation, and messaging for a smooth, responsive user experience.

Denver Nightsky Helper (Capstone Project, December 2025) | Python Application

- Built a Python-based astronomical planning tool using Skyfield to compute celestial visibility windows (API-style data retrieval) and integrate external environmental data (moon illumination via web scraping).
- 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.
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Education and Training

Certificate in Programming (Computer Science) (12/8/25)

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.
- Acted as internal systems power user; trained staff on enterprise software tools and improved adoption of contract and procurement systems.

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.
- Maintained structured data systems and automated administrative workflows using templates, databases, and reporting 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.
- Built custom reporting tools to support academic planning and enrollment analysis by campus leadership.
- 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