

Marcos Arnold

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EDUCATION

Colorado College

Colorado Springs, CO

Bachelor of Arts, Double Major in Computer Science and Sociology

May 2027

- Relevant Coursework: Data Structures and Algorithms, Software Design, Computer Organization, Number Theory

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, C, HTML, CSS

Frameworks: Django, React.js, Node.js, MongoDB, HTMX, Tailwind CSS, PyTorch

Developer Tools: Git, Visual Studio Code, Jupyter Notebook, ArcGIS, Postman, AWS, Firebase, Docker

EXPERIENCE

Data Analysis and Research Assistant

January 2026 – Present

Hey Neighbor

Colorado Springs, CO

- Designing community research with executive leadership to evaluate Neighborhood University's impact on civic engagement, community building, and alumni leadership across 150+ alumni from 50+ neighborhoods.
- Analyzing, synthesizing, and visualizing qualitative focus group data and alumni geographic information using Excel, Stata, and ArcGIS, producing community maps and a master report that inform program structure, marketing strategy, and neighborhood expansion decisions

Human-Computer Interaction (HCI) Research Assistant

November 2025 – Present

Colorado College Department of Computer Science

Colorado Springs, CO

- Conducting a comprehensive literature review under the guidance of Dr. Varsha Koushik on accessibility, cognitive disability, and long-term technology use to inform the design of a community-driven HCI research study.
- Synthesizing findings to inform the development of an adaptable computer vision-based tool for adults with neurodivergent needs, emphasizing inclusive design and software implementation considerations.

Software Development Intern

May 2025 – October 2025

Colorado College Office of Information Technology

Colorado Springs, CO

- Developed a full-stack Django and HTMX application that centralized tracking for 23 institutional applications across 19 business processes, modeling a hierarchical service flow from division to department, service area, business function, and application to improve cross-department coordination.
- Designed and implemented a relational database schema in PostgreSQL supporting application states, ownership, and service routing, reducing duplicate records and improving data integrity.

TECH PROJECTS

Hue Hero | Java, Swing, SQL, Image Processing

December 2025

- Built a desktop color-by-number pixel art game used by 20+ players, converting images into interactive grids and powering 50+ leaderboard entries with a MySQL database for persistent user accounts and saved progress.

Twitter Community Detection | Python, NetworkX, Pandas, Leiden, Infomap

May 2025

- Analyzed a Twitter network of 81,306 users from the Stanford SNAP dataset with Leiden and Infomap algorithms to measure information flow and quantify echo chamber effects, producing visualizations of community structures.

ADDITIONAL EXPERIENCES

Webmaster Assistant

September 2025 – Present

The Sounds of Colorado College (SOCC) Radio

Colorado Springs, CO

- Developing and maintaining the SOCC Radio website using WordPress, Cargo, HTML, and CSS, supporting 500+ weekly visitors by implementing content updates, multimedia integrations, and accessibility improvements.

Leadership Team

February 2025 – Present

Colorado College Coding Club

Colorado Springs, CO

- Mentoring 60+ students through workshops and community events, helping members achieve personal, academic, and professional coding goals.
- Founded Tiger HaCCs, the inaugural interdisciplinary campus hackathon, coordinating 40+ participants, securing sponsorships, and leading hands-on software development projects with Career Center and Math/CS Department.