

Jacob Yepez

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SUMMARY

Software engineering undergraduate with experience in Python, C++, and full-stack development. Built GUI applications, web scraping tools, and data structures with a focus on modular, efficient code. Seeking software engineering internships in backend or full-stack development.

EDUCATION

- **University of Colorado, Colorado Springs** Colorado Springs, CO
B.Sc. in Computer Science - Software Engineering Focus; GPA: 3.93 *Expected Dec 2026*
- **Seattle University** Seattle, WA
B.Sc. in Computer Science; GPA: 3.77 *Sep 2022 – Jun 2023*

TECHNICAL EXPERIENCE

- **Eclipses** Colorado Springs, CO
Backend Software Engineer Intern *Jun 2020 – Jul 2020*
 - **Encryption:** Implemented a custom hashing and salting algorithm for secure login credential storage.
 - **Access Control:** Restricted sensitive web functionality to authenticated users.
 - **Integration:** Connected front-end JavaScript with back-end Java services, optimizing data transfer.

PROJECTS

- **ROM Launcher** Jun 2025 – Present
Universal Emulator and ROM Launcher
 - **Summary:** Built an application to load and launch classic game ROMs from multiple emulators.
 - **Front-end:** Developed HTML, CSS, and TypeScript using Tauri2.0 and connected backend with Rust.
- **Overload Digest** Feb 2025 – May 2025
Daily News Feed Generator
 - **Summary:** Python GUI app scraping 9 news sources using requests, BeautifulSoup, Selenium, and Tkinter.
 - **Performance:** Multithreaded scraping for real-time updates and dynamic content handling.
 - **Modularity:** Structured scraper functions and Article class for easy addition of new sources and consistent formatting.
- **Linux Backup Program** Apr 2025 – May 2025
Backup for Linux Systems
 - **Backup Automation:** Used tar and gzip to securely archive user files on Linux.
 - **File Tracking:** Recorded creation dates to organize backups and simplify retrieval.
- **RandomHeapNumbers** Mar 2023 – Apr 2023
Heap Operation Display
 - **Summary:** Implemented a dynamic min-heap in C++ supporting insert, deleteMin, flush, and copy operations.
 - **Driver Program:** Tested heap functionality with random and repeated numbers.
 - **Memory Management:** Ensured proper dynamic memory handling and implemented copy constructor and assignment operator for safe heap duplication.

EXPERIENCE

- **Target, Colorado Springs, CO - Jun 2024 – Present:** Flexible team member performing multiple roles and collaborating with colleagues.
- **Grazers, Williston, VT - Oct 2023 – Jan 2024:** Maintained health code standards and assisted with food prep and dishwashing.

PROGRAMMING SKILLS

Languages: Python, C++, C, C#, Java, Bash, TypeScript, JavaScript, Rust, RISC-V, LaTeX

Technologies: AWS, Node.js, Tauri2.0, Linux, MakeFiles, Selenium, BeautifulSoup, Tkinter, Django, Overleaf