

# Jacob Yepez

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## SUMMARY

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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.

## SOFTWARE ENGINEERING SKILLS

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

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

**Methodologies:** Agile, Plan-driven, Scrum, XP

## EDUCATION

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- **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

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- **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:** Engineered a connection from front-end JavaScript with back-end Java services, optimizing data transfer.

## PROJECTS

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- **ROM Launcher** Jun 2025 – Present  
*Universal Emulator and ROM Launcher*
  - **Summary:** Engineered 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** April 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.

## EXPERIENCE

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- **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.