

Jake Abendroth

San Francisco, CA

[LinkedIn](#) | [GitHub](#)

Summary

Results-driven **Computer Science student** with a strong foundation in **systems programming, cybersecurity, and software development**. Proficient in **Rust, Python, C/C++, and Java**, with experience in building efficient, secure applications. Passionate about **low-level programming, file integrity monitoring, and open-source contributions**. Seeking a **Summer 2025 internship** in **Software Development, Cybersecurity, or Systems Programming** to apply technical expertise and problem-solving skills in a professional setting.

Education

University of San Francisco

Bachelor of Science in Computer Science (Aug 2023 – Dec 2026/May 2027)

Technical Skills

- **Programming Languages:** Rust, Python, C/C++, Java
 - **Software Development:** Systems programming, command-line tools, performance optimization
 - **Security & Integrity:** File integrity monitoring, checksum verification, cryptographic algorithms
 - **Development Tools:** Git, GitHub, Linux, Shell scripting
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Projects

Argus - File Integrity Monitor (*Dec 2024 – Jan 2025*)

- Developed a **Rust-based** file integrity monitoring tool using **SHA256 checksums** to detect unauthorized modifications.
- Implemented **recursion, real-time monitoring, and command-line argument parsing** for enhanced usability.

- Optimized performance to process **10,000+ files in under 5 seconds**.
- [GitHub Repository](#)

BaseX Encoder/Decoder in C *(Dec 2024)*

- Designed and implemented a **high-performance encoder/decoder** for **Base8, Base32, and Base64 formats**.
 - Used **bitwise operations and memory-efficient data structures** to optimize speed and accuracy.
 - [GitHub Repository](#)
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Experience

Togo's Sandwiches *(Mar 2022 - Apr 2023)*

- Delivered **exceptional customer service** in a high-paced environment, handling **50+ transactions per shift**.
 - Developed strong **attention to detail** while preparing food orders.
 - Strengthened **teamwork and communication skills** by collaborating with a diverse team to improve workflow efficiency.
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Additional Information

- **Interests:** Low-level programming, cybersecurity, cryptography, open-source contributions
 - **Online Presence:** Engages in **programming challenges and project development**
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