

# Jake Abendroth

San Francisco, CA | [contact@jakea.net](mailto:contact@jakea.net) | [linkedin.com/in/jakeabendroth](https://linkedin.com/in/jakeabendroth) | [github.com/abendrothj](https://github.com/abendrothj) | [jakea.net](https://jakea.net)

## SUMMARY

Computer Science student passionate about systems programming, cybersecurity, and scalable software design. CTO and co-founder of **Finlingo (finlingo.ai)**, leading full-stack and mobile development for a financial literacy platform. Skilled in Rust, C/C++, Python, and JavaScript, with experience optimizing performance, designing secure systems, and managing engineering teams. Seeking a 2025–2026 internship in software or security engineering to apply low-level expertise and leadership to production environments.

## TECHNICAL SKILLS

**Languages:** Rust, Python, C/C++, Java, JavaScript, TypeScript, etc.  
**Web/Mobile:** React, React Native, Next.js, Express.js, Vercel  
**Security & Systems:** Linux, File Integrity Monitoring, Cryptography, Shell Scripting  
**Databases:** PostgreSQL, MySQL, MongoDB, Redis  
**Tools:** Git, Docker, Kubernetes, Postman, cURL, GitHub Actions  
**AI-Enhanced Development:** Cursor, Claude Code

## RELEVANT COURSEWORK

Data Structures and Algorithms, Systems Programming, Operating Systems, Computer Security, Web Development, Software Engineering, Databases, Discrete Mathematics

## PROJECTS

- Finlingo** | *React Native, Express.js, PostgreSQL, TypeScript, Docker* | [finlingo.ai](https://finlingo.ai)

May 2025 – Present

  - Co-founded a financial literacy platform serving 100+ beta users, enhancing student financial education through gamified learning.
  - Designed and deployed a secure Express.js + PostgreSQL backend in Docker for scalable cloud hosting.
  - Developed React Native mobile app with real-time account tracking and analytics dashboard.
- Argus – File Integrity Monitor** | *Rust, SHA256, CLI, Systems Programming*

Dec. 2024 – Jan. 2025

  - Developed a Rust-based file integrity monitor processing 10K+ files/sec using SHA256 checksum verification.
  - Implemented recursive scanning, real-time change detection, and efficient CLI argument parsing.
  - Optimized performance via multi-threading and low-level I/O management.
- BaseX Encoder/Decoder in C** | *C, Bitwise Operations, Base64, Optimization*

Dec. 2024

  - Built a high-efficiency encoder/decoder supporting Base8, Base32, and Base64 using bitwise logic.
  - Achieved 2× faster throughput compared to reference implementations through low-level optimization.

## EXPERIENCE

- Chief Technology Officer**

*Finlingo*

May 2025 – Present

Hybrid

  - Oversee full-stack product architecture, deployment, and cybersecurity compliance for Finlingo’s platform.
  - Mentor development team, conduct code reviews, and manage release cycles for production stability.
  - Reduced API latency by 25% through query optimization and improved caching strategy.
- Scholarship Chairman**

*Pi Kappa Phi Fraternity*

Nov. 2024 – Present

San Francisco, CA

  - Implemented academic mentoring program increasing member GPA averages by 0.3 points.
  - Organized study initiatives raising academic participation by 60%.
- Team Member**

*Togo’s Sandwiches*

Mar. 2022 – Apr. 2023

San Francisco, CA

  - Handled 50+ transactions per shift with 99% accuracy; trained new hires to improve workflow efficiency.
  - Optimized prep processes, reducing order turnaround by 15%.
- Junior Line Cook**

*The Sicilian*

2019 – 2021

San Francisco, CA

  - Supported kitchen operations in a high-volume restaurant, ensuring food safety and quality standards.
  - Improved prep station efficiency, reducing average dish time by 20%.

## ADDITIONAL INFORMATION

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**Interests:** Low-level programming, cybersecurity, open-source development, cryptography, quantum computing, blockchain.

**Online Presence:** Active contributor to GitHub projects and developer communities.