

Jake Abendroth

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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 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 May 2025 – Present

Finlingo 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 Nov. 2024 – Present

Pi Kappa Phi Fraternity 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 Mar. 2022 – Apr. 2023

Togo's Sandwiches 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 2019 – 2021

The Sicilian 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

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

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