Frank Guglielmo

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EDUCATION
University of San Francisco (USF), San Francisco, CA
- *B.S. in Computer Science, Minor in Business Analytics*   *May 2024*
- *Valedictorian Finalist*

NOTABLE PROJECTS
Librario
- *Programmed a grid-based word puzzle game with dynamic tile interactions, leveraging Swift & SwiftUI for an engaging & responsive user experience.*
- *Developed a custom letter generation algorithm to produce letters relative to the current game board*
- *Designed and implemented engaging stat tracking features, integrating GameKit for real-time leaderboard functionality to showcase user achievements and foster competition.*
- *Successfully launched the game on the Apple App Store, demonstrating expertise in the app publishing process*

MacOS Daemon for IoT Device Integration
- *Developed a lightweight MacOS menu bar application in Swift that monitors and reports state changes to Roku's IoT cloud infrastructure*
- *Implemented a REST API in Go, enabling third-party devices to interact with and transmit state change data to Roku's IoT ecosystem*
- *Leveraged Apache Kafka for robust, at-least-once event delivery in the cloud-based IoT state monitoring pipeline*

WORK EXPERIENCE
Stealth Startup, San Francisco, CA   *October 2024 - Present*
Software Engineer Intern
- *Developed a modular "Cluster Manager" to orchestrate multi-modal app actions (audio playback, animations, camera moves) in parallel with complex start/end conditions*
- *Emphasized thread-safety & concurrency control to ensure smooth updates under frequent user/server events.*
- *Bridged server-side push events to the iOS notification system, ensuring timely in-app alerts*

Roku, San Jose, CA
Software Engineer Intern, Cloud   *May 2023 - August 2023*
- *Architected & developed a MacOS Daemon in Swift to analyze & report Mac state changes*
- *Implemented a REST API in Go to allow 3rd party devices to transmit state events to Roku's IoT cloud infrastructure*
- *Utilized Apache Kafka in the event processing pipeline to guarantee at-least-once delivery of state change events*

USF CS Dept., San Francisco, CA
CS "Super" Tutor   *February 2022 - May 2024*
- *Offered specialized tutoring for undergraduate & graduate computer science students, covering diverse coursework, assignments, & project inquiries*

TECHNICAL SKILLS
- ***Programming languages (Sorted by Proficiency):*** *Swift, SwiftUI, Python, Java*
- ***Apple Frameworks:*** *AVFoundation, Observation, GameKit*

AWARDS
- *Advanced 1st Place, DonsHack Hackathon 2024 - **Clixz.org**: An event-based photo-sharing React website*
- *1st Place, USFCA Compsigh Hackathon 2023 - **Spot**: An iOS app to help users find nearby remote work spaces*