

ALEXANDER RAMIREZ

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SUMMARY

Application developer building native software for Apple platforms, with three years of enterprise application development inside regulated New Mexico state government environments and 10+ years in technology overall. Currently shipping a portfolio of iOS, macOS, and visionOS applications under Ramirez Labs, with work spanning on-device machine learning, speech-driven interfaces, and privacy-first data architecture. Pursuing a Doctor of Computer Science with dissertation research on lightweight, on-device natural language to UI action mapping within Apple's ecosystem.

INDEPENDENT DEVELOPMENT

Founder and Developer, Ramirez Labs 2026 – Present

Independent iOS, macOS, and visionOS development | ramirezlabs.app

Cairn Skin (iOS) Privacy-first wellness photo journal for longitudinal body-area tracking. Built in Swift and SwiftUI on Apple's Vision framework, with all image data and computed feature vectors stored on-device and no network layer. Implemented ghost-overlay capture alignment, biometric app locking, per-area reminder scheduling through local notifications, PDF export, and a migration system that recomputes stored feature prints when the extraction pipeline changes. Diagnosed and resolved a Codable decoding failure that silently orphaned existing user data on schema change, adding a recovery path that rebuilds records from surviving entries. Removed a similarity-scoring feature after beta feedback showed the metric was dominated by lighting rather than subject, replacing it with a visual comparison grid. Distributed through TestFlight to external testers across seven builds; App Store release in progress.

Additional projects in development: Quadrat (iOS), a nature identification app built around a confidence gate that withholds an identification when model certainty falls below threshold rather than guessing. ClearChart (visionOS), a spatial clinical documentation prototype using SwiftUI and RealityKit with live speech recognition mapped to structured clinical fields. B.E.T.H. (macOS), an on-device voice assistant built on Apple's Foundation Models framework that maps natural language to system actions with no cloud dependency, and which serves as the research harness for dissertation work; a completed pilot study measured intent routing accuracy and isolated error concentration in referent-ambiguous inputs.

PROFESSIONAL EXPERIENCE

Jira Administrator / Application Developer January 2026 – Present

New Mexico Health Care Authority (HCA), Santa Fe, NM

Administer Atlassian and Jama toolchains supporting software delivery across a compliance-heavy state health agency, managing permission schemes, access controls, and workflow configuration. Authored a detailed security outline for Jira board and project permissions delivered to agency leadership. Leading migration of agency source control from Bitbucket to GitHub, coordinating repository transfer, access provisioning, and continuity of developer workflows. Produce technical documentation and configuration records supporting operational and audit requirements. Coordinate with vendors and cross-functional teams on platform upgrades, integrations, and production support.

Application Developer November 2023 – December 2025

New Mexico Taxation & Revenue Department, Santa Fe, NM

Developed complex T-SQL queries against Microsoft SQL Server to support legislative analysis, joining data across multiple databases and performing data cleanup to produce accurate results under legislative session deadlines. Worked in a branch-based development workflow on the FAST Enterprises tax platform, pulling code locally and promoting changes through development, test, staging, and production environments. Participated in peer code review as both author and reviewer, with emphasis on SQL correctness and data integrity. Served as technical lead for the statewide enterprise scanning software implementation, coordinating rollout across all state offices and partner locations. Supported and troubleshooted enterprise applications for a large, geographically distributed user base.

Firewall Engineer February 2023 – November 2023

New Mexico Department of Health (DOH), Santa Fe, NM

Administered Palo Alto firewall infrastructure supporting 50+ state office locations statewide. Designed and deployed new firewall infrastructure for remote agency locations, managing configuration, testing, and implementation independently. Developed and enforced network security policies aligned with state IT governance and privacy standards.

Systems Engineer 2021 – February 2023

Nube Technology Solutions, Albuquerque, NM

Built and administered Windows Server and Active Directory environments for multiple client organizations, including DNS, DHCP, and Group Policy. Designed client network environments from the ground up including domain creation and endpoint provisioning. Advised clients on infrastructure planning, licensing, and technology procurement.

Earlier Experience 2016 – 2021

Progressive information technology roles spanning desktop support, systems administration, and infrastructure operations. Details

available on request.

EDUCATION

Doctor of Computer Science, Cybersecurity and Information Assurance 2024 – Present

Colorado Technical University | In progress

Dissertation focus: lightweight, on-device natural language to UI action mapping within Apple's ecosystem.

Master of Science, Cybersecurity Completed

Maryville University

Bachelor of Science, Applied Business Information Systems Completed

Grand Canyon University

TECHNICAL SKILLS

Languages: Swift, T-SQL, SQL

Apple Frameworks: SwiftUI, Vision, Core ML, Foundation Models, RealityKit, Speech, AVFoundation, HealthKit, Observation

Apple Platform Development: Xcode, App Store Connect, TestFlight distribution, provisioning and code signing, on-device machine learning, privacy-first data architecture

Databases: Microsoft SQL Server, multi-database queries, data cleanup and integrity validation

Development Practices: Git, branch-based development, environment promotion pipelines, peer code review, technical documentation

Enterprise Platforms: Jira Cloud, Confluence, Bitbucket, GitHub, Jama, SharePoint Online, Microsoft 365

Security and Compliance: Access control and permission design, network security policy, state IT governance and privacy standards

CERTIFICATIONS IN PROGRESS

AWS Certified Cloud Practitioner, in preparation, with AWS Solutions Architect Associate as the follow-on target.