

# Abdalla Mohammed

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## EDUCATION

**Western Governors University**, Columbus, OH

Expected Graduation Q1 2027

- Accelerated B.S. Software Engineering + M.S. AI Engineering
- Relevant Coursework: Data Structures, Algorithms, Object Oriented Design & Machine Learning

## EXPERIENCE

**Apple**, Columbus, OH

Oct 2023 — Present

*Automation Engineer Co-op* (Jan 2026 — June 2026)

- Delivered reusable internal tooling adopted by the platform team for future content management work.
- Reduced customer-template discovery and rendering from weeks to seconds.
- Enabled faster investigation of customer communications for legal requests and escalations.

*Technical Expert* (Apr 2024 — Present)

- Performed hardware repairs as an Apple certified repair technician, diagnosing and resolving device issues.
- Built a turnaround time tracking tool using historical repair data to forecast bench staffing needs.
- Led an initiative to standardize new technician training: authored the team's first consolidated repair reference guide, turning ad hoc, ask-one-person knowledge into a shared resource.

*Technical Specialist* (Oct 2023 — Apr 2024)

- Systematically debugged and resolved complex iOS/macOS software and hardware issues, translating deep technical diagnostics into accessible guidance for everyday users.
- Investigated complex issues by isolating root causes and documenting clear reproduction steps.
- Reported detailed customer facing software issues to internal teams, contributing to product quality feedback.
- Three time Apple Applause recipient for outstanding performance.

## PROJECTS

**Apple**, *Journey Visualization macOS App*

Jan 2026 — Jun 2026

- Built a macOS app that uses the parsing framework to inspect, edit, and render customer communication templates.
- Added tools for tracing data fields through templates and viewing the resulting customer journey.
- Supported faster template investigation and creation without relying on lengthy manual workflows.
- Integrated internal Apple Cloud & PostgreSQL services for collaboration and data management.
- Optimized application rendering and memory performance using Instruments.

**Apple**, *Payload Parsing Framework*

Jan 2026 — Jun 2026

- Built a reusable Swift framework that parses and normalizes internal XML payloads into structured data.
- Designed the framework for use across future payload analysis tools.
- Built a payload analytics system to identify the most frequently used fields, helping teams prioritize high impact system changes.
- Built an MCP server to understand payloads / templates using natural language.
- Automated build, test, and release workflows for Swift packages using GitHub Actions.

**Independent Project**, *Proximity Friend Finder*

Oct 2023 — Jun 2025

- Built an iOS CoreBluetooth app in which devices act as both central and peripheral roles; rotated derived UUID tokens every 15 minutes to reduce persistent tracking.
- Optimized connection algorithms by prioritizing peripherals based on RSSI, connecting to the strongest signals first to conserve radio resources and improve discovery accuracy in multiple device environments.
- Built a Hummingbird (server-side Swift) API to serve app assets, self-hosted on an Oracle Cloud VM behind a custom domain.

## SKILLS

- **Apple Platforms:** Swift, SwiftUI, iOS, macOS, visionOS, Xcode, SwiftData, Swift Charts, WebKit, AppKit, CoreBluetooth, XCTest, Instruments, CreateML & CoreML
- **Spatial / Media:** RealityKit, PhotosUI, AVKit, spatial UI patterns, media import, interactive UI state
- **Backend & Data:** Python, PostgreSQL, SQLite, AWS, GCP, Rover APIs, CloudKit, Oracle Cloud
- **Tooling:** Git, GitHub Actions, Terminal, SPM, Kubernetes, MCP, AI Assisted Development Tools
- **Architecture:** MVVM, async/await, accessibility, Server Side Swift/Vapor/Hummingbird
- **Languages:** English & Arabic