Daylen Hall

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Summary

Software Developer and Computer Science graduate with experience designing and delivering end-to-end, data-driven applications that solve ambiguous, optimization-heavy problems. Strong foundation in computer science fundamentals and object-oriented design, actively expanding into iOS development with Swift, building on a strong foundation in mobile systems and backend architecture.

Education

Florida A&M University   Tallahassee, FL
Computer Science   May 2025
Honors: Google Computer Science Scholarship, Dean's List (3x), 3 merit-based scholarships
Campus Involvement: Student Athlete, NSBE, BDPA, FAVES (volunteer organization)
Soft Skills: Team-Oriented • Adaptable • Time Management • Clear Communicator • Creative Problem Solver • Leadership

Experience

Northrop Grumman   Tallahassee, FL
Research Intern, Digital   Aug '23 - Aug '24
Forensics & A.I

- Conducted forensic analysis using Autopsy to extract file metadata, thumbnail fragments, and hidden headers
- Applied YOLOv7 object detection to real-world dashcam data to flag seatbelt usage and classify objects (humans, animals)
- Applied YOLOv7 to detect safety violations in 10,000+ video frames, reducing false-positive rate by 25%.

Projects

DriveIQ — Vehicle Maintenance & Fleet Management Platform

- Designed and built DriveIQ, a cross-platform vehicle maintenance tracking application using Expo React Native and Firebase, supporting multi-vehicle management, manual odometer updates, and service history logging across personal, family, and fleet use cases.
- Implemented role-based multi-user access (admin/driver/view-only) with vehicle assignment, shared maintenance logs, and permission controls for family and fleet plans.
- Integrated subscription management using Apple In-App Purchases via RevenueCat, enabling tiered access, feature gating, and entitlement-based limits persisted in Firestore.
- Engineered data validation and user-safety features including odometer typo detection and update reminders
- Built scalable backend workflows using Firebase Firestore and Cloud Functions to support real-time data sync

Skills & Interests

Technical: Java · Python · C++ · JavaScript · TypeScript · React · Firebase · Node.js · SQL · Git · VS Code · IntelliJ · iOS
Tools & Environment: Google Maps API · Folium · Firebase Realtime DB · JSON · REST APIs · Vite · GitHub