

DYLAN MILLER

US Citizen

✉ Dylanjaws185323@gmail.com

in [linkedin.com/in/dylan-miller-link](https://www.linkedin.com/in/dylan-miller-link)

🐙 github.com/DylanMiller765

Education

University of Houston

Bachelor of Science in Computer Science

Expected December 2027

Houston, Texas

Relevant Coursework

- Data Structures
- Algorithms
- Artificial Intelligence
- Operating Systems
- Software Design
- Database Systems
- Computer Architecture
- Discrete Mathematics

Experience

David Weekley Homes

Software Engineering Intern

June 2025 – August 2025

Houston, Texas

- Built a Role-Based Access Control module in **Vue.js** and **TypeScript** managing **800+** security objects across 4 role types, with bulk assignment and real-time progress tracking that reduced admin overhead by **75%**.
- Integrated **REST** and **GraphQL APIs** with HMAC authentication and a multi-tier caching layer, cutting response times from **400ms to sub-100ms** with an **85% cache hit rate**.
- Designed a security management dashboard supporting **1,000+** users with search, filtering, pagination, and async bulk operations with built-in error recovery.

David Weekley Homes

Software Engineering Intern

June 2024 – August 2024

Houston, Texas

- Developed an internal feedback system using **Vue 3**, **.NET**, **TypeScript**, and **C#**, adopted by **200+** employees to submit, categorize, and track feedback on **15+** company tools.
- Built an automated reporting pipeline with **SQL** queries processing **500+** feedback records weekly, cutting report generation from **15 minutes to under 2 minutes**.

Projects

Memo | *SwiftUI, FamilyControls, ManagedSettings, DeviceActivity, StoreKit 2, SwiftData*

March 2026 – Present

- Built and launched Memo, an iOS app blocker with **1,000+** users that blocks distracting apps until users complete quick brain-training reps to earn timed unlock passes.
- Implemented app blocking and Screen Time controls using **FamilyControls**, **ManagedSettings**, and **DeviceActivity**, letting users restrict selected apps, track pickups, identify top offenders, and view weekly usage trends.
- Designed gamified focus loops with streaks, XP, achievements, personal bests, and Focus League rankings that compete on lowest feed time instead of highest screen time.

StretchCheck | *SwiftUI, Vision, AVFoundation, FamilyControls, StoreKit 2, SwiftData*

February 2026 – Present

- Built and published an iOS stretching app with camera-based pose verification using Apple's **Vision framework** (VNDetectHumanBodyPoseRequest), requiring users to complete real stretches to dismiss alarms.
- Engineered "Unstoppable Mode" using **FamilyControls** and **ManagedSettings** to block all device apps until stretches are completed, with a DeviceActivityMonitor safety timeout that persists through force-quit.
- Implemented **StoreKit 2** subscriptions with **7-day trial**, **SwiftData** persistence, and **AlarmKit** integration for **iOS 26+** system-level alarms that cut through Do Not Disturb.

Network Monitoring Dashboard – 1st Place, Meta RNE Hackathon | *Python, Flask, SMTP*

November 2024

- Won **1st place** at Meta-hosted hackathon by building a real-time network monitoring dashboard in **Python Flask** with automated **SMTP** alerting when devices fail **3 consecutive pings**, reducing mean time to detection from **30+ minutes to under 60 seconds**.

Technical Skills

Languages: Python, C++, C, Swift, JavaScript, TypeScript, Java, SQL, C#, Go, HTML/CSS

Frontend: SwiftUI, React, React Native, Vue.js, Next.js, Tailwind CSS

Backend & Tools: Node.js, .NET Core, Flask, PostgreSQL, Supabase, CloudKit, Git, Linux, AWS EC2, Docker, Expo SDK, OAuth 2.0, Agile/Scrum

Leadership

Code Coogs – University of Houston CS Organization

Aug 2023 – May 2024

Team Lead, Laso (Language Exchange Web App)

Houston, Texas

- Led **6 developers** building a language exchange video web app using **React**, **Tailwind**, and **Go**, managing sprint planning, code reviews, and feature prioritization across **2 semesters**.