

# Andrew Williams

Software Engineer

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**Awards & Media:** Forbes 30 Under 30 (Social Media, 2022), Atlanta Inno 25 Under 25 (2020). Featured in Forbes, Yahoo!, Sportico, Sports Business Journal, Tech Talk: 'UI/UX Design Best Practices' (Bractlet), 'Swinging for the Fences' (Clevertap)

**Skills:** JavaScript/TypeScript, React, React Native, Python, Java, Node.js, Next.js, Express, Expo, GraphQL, Redis, Redux, Zustand, REST APIs, Firebase, Cloudflare Stream, AWS, MySQL, Jest, Cypress, Stripe, Plaid, Git, HTML/CSS, Tailwind CSS

## EXPERIENCE

**Hurdlr** *Accounting Software (Embedded UI & API) | Forward Deployed Engineer*

Oct 2024 - Nov 2025

- Developed and shipped features across React, TypeScript, Java, Redux, and MySQL to improve platform stability for the Embedded UI and V5 RESTful API serving enterprise partners.
- Refactored invoice bulk deletion by batching IDs through a Redux reducer to a single endpoint, adding validation logic to filter third-party payments (Stripe, Plaid) before the request, reducing user wait time and eliminating invalid deletion errors.
- Diagnosed 1-cent rounding errors blocking payments in production by identifying inconsistencies in frontend vs backend calculation, shipped a frontend fix to unblock users, and triaged backend ownership for the long-term solution.
- Identified and resolved 150+ tracked engineering issues (85% completion rate), performing root-cause analysis across frontend, backend, and API layers for customer-partners.
- Integrated and maintained third-party financial APIs including Stripe SDK and Plaid Link, collaborating with partner engineering teams on secure authentication, webhook reliability, and data synchronization.
- Wrote Cypress E2E tests to ensure platform stability, contributing to ~70% test coverage across critical user flows.

**Audia** *Music Based Social Network (iOS & Android) | Full Stack Software Engineer*

Jul 2023 - Oct 2024

- Shipped full-stack music social network from concept to App Store across iOS and Android using React Native, TypeScript, Expo, Firebase, and Node.js/Express.
- Engineered audio playback system with viewport-aware focus detection, managing single-instance Sound objects and automatic cleanup on navigation to prevent memory leaks.
- Migrated global state management from Redux to Zustand, eliminating ~40% of boilerplate and simplifying state logic across 20+ screens.
- Implemented a Node.js/Express server on Vercel proxying Spotify API endpoints for search, playlists, artists, and albums, securing all routes with Firebase Auth token verification.
- Architected social graph supporting nested comments with @mentions, threaded replies, reposts with snapshot persistence, and user-curated collections with optimistic UI and server rollback across all social interactions.
- Denormalized Firestore data model to eliminate N+1 read patterns on feed render, storing user identity fields directly on post documents while maintaining consistency via Cloud Functions.

**DashQL with OS Labs** *Open Source GraphQL Caching Solution | Full Stack Software Engineer*

Feb 2023 - Jun 2023

- Led frontend development of interactive dashboard using React, TypeScript, Chart.js, and Vite, enabling real-time visualization of GraphQL caching performance.
- Built dynamic query builder UI with checkbox-driven field selection that generates GraphQL queries on the fly, supporting nested queries and 150+ query combinations.
- Implemented Redis caching at the field level to avoid redundant GraphQL query execution, visualized cache hit/miss rates and response times across 4 Chart.js charts, demonstrating up to 90% performance improvement.

**Press Sports** *Sports Social Network | Co-Founder & Software Engineer*

Nov 2017 - Jan 2023

- Co-founded and scaled sports social network to 350,000+ users with 4.9-star rating (11,800 reviews), leading product strategy and marketing efforts, eventually transitioning to software development.
- Directed product strategy implementing A/B tests via Firebase Remote Config feature flags, analyzing results with Amplitude to achieve 60% Day-1, 55% Week-1, and 25% Day-30 retention.
- Built React/TypeScript website featuring athlete profiles, leaderboards, and homepage, hosted on Firebase with Firestore.
- Optimized athlete profiles by lazy loading Cloudflare Stream components and paginating Firestore queries by popularity, reducing LCP to ~2 seconds and improving Lighthouse score from 60 to 90+, lowering Firestore read costs at scale.
- Contributed to React Native mobile app, implementing leaderboard and athlete profile features on a team of 7+ engineers.
- Helped architect video upload and streaming infrastructure using Cloudflare Stream for automatic transcoding and adaptive bitrate delivery, with Firebase Cloud Functions brokering secure direct uploads from client to Cloudflare.
- Built Python web scraping pipeline using Selenium to extract data on 10,000+ committed athletes.

## EDUCATION & CERTIFICATIONS

**University of Mississippi** *Oxford, MS | BBA, General Business*

Aug 2014 - May 2018

**Georgia Institute of Technology** *Atlanta, GA | Software Engineering*

Jan 2021 - Oct 2021