

Andrew Williams

Software Engineer

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Technical Skills: JavaScript (6y), TypeScript (6y), React (6y), React Native (3y), Python (3y), Node.js (5y), Express, GraphQL, Next.js, JWT, OAuth, Redux, AWS, Git/GitHub, CI/CD, PostgreSQL, MySQL, MongoDB, Firebase, BigQuery, Redis, Selenium, Jest, Cypress, React-Testing-Library, Webpack, Vite, Expo, Chart.js, Bcrypt, Tailwind, MUI, Figma, HTML5/CSS

EXPERIENCE

Auda *Music Based Social Network (iOS & Android) | Full Stack Software Engineer* **2024 - Current**

- Architected and developed a feature-rich native mobile app for both iOS and Android platforms leveraging React Native, TypeScript, and Expo Router; fostering music sharing, artist discovery, community, and business growth opportunities.
- Engineered a Node.js/Express server to manage HTTP requests for Spotify API, giving users access to thousands of music songs and artists and improving code organization by using middleware design to process precise responses.
- Spearheaded the successful integration of 10+ API endpoints to elevate user experience and functionality on the platform.
- Employed Google Cloud storage to architect a scalable data system, resulting in a 50% decrease in data retrieval time, while ensuring control and security over user information.
- Implemented Redux for efficient global state management, enabling seamless data utilization and maintenance with the app.
- Executed a Figma vision board to uphold superior standards for UI/UX decisions and system design flow of the app.
- Adhered to test-driven development practices to fortify app security and mitigate potential technical debt in the future.

DashQL with OS Labs *GraphQL Caching Solution | Full Stack Software Engineer* **2023 - 2024**

- Launched an NPM package that solves the issue of over/under fetching, leading to an increase in performance speed by up to 90% for clients who used DashQL.
- Led the development of the demo site using React and Typescript to manage state and enhance overall structure by employing reusable components to selectively manipulate the DOM, leveraging the virtual DOM to boost performance.
- Incorporated React Hooks to streamline complex functionality, simplifying the codebase and creating reusable functions while delivering pure and maintainable code, ensuring future compatibility and scalability.
- Deployed Node.js/Express server to handle HTTP requests to a single GraphQL endpoint, utilizing a middleware pattern to cache unused data in a Redis store and track performance statistics to send back to the client.
- Optimized GraphQL's abstract syntax trees by bundling to deconstruct and cache GraphQL queries to establish a comprehensive cache system, enhancing the likelihood of cache hits for specific queries.
- Configured GraphQL server to consolidate API requests of over 150 different potential query combinations, facilitating efficient retrieval of data.
- Integrated PostgreSQL to store data, aligning with GraphQL's preference for relational databases.
- Conducted unit and integration testing using Jest to preemptively identify any issues with the server and website.

Press Sports *Sports Social Network | Co-Founder & Head of Data Analytics* **2017 - 2022**

Awards: "Forbes 30 under 30 - Social Media" in 2022, and *Atlanta Inno: 25 under 25* in 2020.

- Hired and Managed team of 15+ employees, driving user growth to 300,000 users with a 4.9-star app store rating on 11,800 app store ratings.
- Directed product to shape decisions and strategy, leveraging expertise in UI/UX and A/B testing that led to 60% Day 1, 55% Week 1, and 25% day 30 retention, and growth of 300,000 users.
- Set up an interactive website with React, integrating SEO best practices to enhance visibility and reusable components with state management to structure the platform for seamless display of data such as videos and profiles.
- Collaborated with a team of 7+ engineers to develop React Native mobile app.
- Initiated BigQuery for early-stage analysis and secure management for a database of thousands of users.
- Expanded database infrastructure to incorporate MongoDB/Firestore, ensuring flexibility managing schema-less data.
- Implemented Python and Selenium for web-scraping to extract data and information for over 10,000 committed athletes.

EDUCATION & CERTIFICATIONS

University of Mississippi *Oxford, MS | BBA, General Business* **2014-2018**

Georgia Institute of Technology *Atlanta, GA | Software Engineering* **2022**

PUBLICITY & MEDIA

'UI/UX Design: Best Practices for Success' - Tech Talk series with Bractlet, 'Swinging for the Fences' podcast (2) with Clevertap, articles from Forbes, Yahoo!, Sportico, Hypepotamus, Sports Business Journal & others.