Andrew Williams
Software Engineer

Washington, D.C. ❖ (404) 797-9308 ❖ avwilliams1995@gmail.com

LinkedIn | GitHub

Technical Skills: JavaScript (ES6+), TypeScript, React, React Native, Python, ML, Node.js, Express, GraphQL, Next.js, JWT, OAuth, Redux, Docker, AWS, Git/GitHub, CI/CD, PostgreSQL, MySQL, MongoDB, Firebase, Redis, Selenium, Jest, Cypress, Webpack, React-Testing-Library, Vite, Expo, Chart.js, Bcrypt, Tailwind, Framer Motion, MUI, Figma, Bootstrap, HTML5/CSS

EXPERIENCE

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

- Leveraging React Native with TypeScript and Expo Router to develop a native mobile application from scratch for both iOS and Android which allows users to share and discover new music with friends, find communities, and grow businesses.
- Implemented a Node.js/Express server to efficiently handle HTTP requests to the Spotify API, enhancing code readability while utilizing its middleware pattern to parse and send back the correct response to the client.
- Spearheading the seamless integration of multiple APIs to elevate user experience and functionality within Auda's platform.
- Utilizing Google Cloud storage to engineer a scalable data system, achieving a 50% reduction in data retrieval time, and ensuring control and security over user info while maximizing horizontal and vertical scalability to facilitate optimal growth.
- Applied Redux for global state management, allowing for easy use and maintainability of data throughout the app.
- Created a Figma vision board to maintain a high standard for UI/UX decisions and system design flow across the app.
- Following test-driven-development practices to ensure full security throughout the app and minimize technical debt.

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

- Built the website on React with Typescript for state management and overall structure to display our demo dashboard, using reusable components to selectively manipulate the DOM by using the virtual DOM to increase render performance.
- Made use of React Hooks to outsource complex functionality and simplify the codebase, creating reusable functions that provide pure and more maintainable code to ensure future compatibility.
- Leveraged Node.js/Express server to efficiently handle HTTP requests to a single GraphQL endpoint, enhancing code readability with easy debugging, utilizing its middleware pattern to track performance statistics to respond back to client.
- Utilized GraphQL's abstract syntax trees to deconstruct and cache GraphQL queries, enabling a deep and complete cache system, increasing the chance that a given query will trigger a cache hit, improving the efficiency of a GraphQL server.
- Employed a GraphQL server to eliminate N+1 queries and aggregate multiple API requests from the client into a single query to fetch specific data according to the relationships defined in the GraphQL schemas.
- Simplified the dev environment with Vite to expedite development speed and code maintainability.
- Tested with Jest to enhance code quality and proactively detect issues with caching and the demo dashboard.

Press Sports *Sports Social Network (iOS and Android) | Co-Founder, CMO & Data Analytics*   **2017 - 2022**

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

- Created our interactive website with React while implementing SEO best practices, allowing for state management and overall structure to display user data (videos, profiles, etc.), using reusable components to selectively manipulate the DOM.
- Employed/worked with engineering team in developing our React Native mobile app.
- Worked with the team on making product decisions/strategy through UI/UX design and A/B testing.
- Oversaw a team of 10+ employees, acquiring 300,000+ users with a 4.9 star overall rating (11.8k ratings).
- Utilized Python and Selenium for web-scraping to extract useful data and information that may be otherwise unavailable.
- Leveraged Python and Firebase to compile weekly and monthly analytics reports to our team and investors.

OPEN SOURCE

Sports Stat Machine *Sports Statistics Tracker | Frontend Software Engineer*   **2023**

- Developed a React based website that readily handles specific API requests for live and past NCAA/NBA statistics from the user and updates the DOM accordingly based on if a user's bet won or lost after analyzing the response from the API.

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.