Joshua Alvarez

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Frontend-Focused Full-Stack Engineer — TypeScript, React, Next.js

Education

Grand Canyon University Sep. 2023 – Apr. 2026
B.S. Software Development · Honors College · GPA: 3.75 *Phoenix, AZ*

Experience

Undergraduate Teaching Assistant Sep. 2024 – Apr. 2026
Grand Canyon University *Phoenix, AZ*

- Supported students in debugging software projects involving JavaScript, HTML/CSS, responsive layouts, application logic, databases, and object-oriented programming
- Reviewed code for correctness, maintainability, interface behavior, and alignment with software requirements while providing actionable technical feedback
- Guided students through frontend, backend, and database implementation challenges using structured debugging and problem-solving techniques

Software Engineering Team Lead Jan. 2025 – Apr. 2026
Coding With My Girls *Phoenix, AZ*

- Translated project requirements into implementation steps, technical priorities, and testable outcomes for student software-development teams
- Reviewed software projects for functional and usability issues and guided teams through debugging, validation, refinement, and technical presentation

Projects

Interval Music Education Platform | *Next.js, React, TypeScript, Tailwind, Tone.js* Jun. 2026 – Present

- Built an interactive browser-based music training platform using React, Next.js, and TypeScript with real-time audio playback, custom piano interfaces, scoring systems, animated feedback, and multiple difficulty modes
- Architected state-driven training flows for question generation, keyboard input, answer validation, interface feedback, audio sequencing, and dynamic rendering
- Designed responsive interaction patterns for desktop and mobile, including adaptive layouts, immediate feedback, progressive difficulty, and accessible visual states

Interactive Portfolio | *Next.js, Tailwind, Github, SVG* Apr. 2025 – Present

- Designed and developed a responsive portfolio using Typescript and React to present software, animation, visual design, and multimedia work
- Implemented reusable components, animated transitions, interactive galleries, modal experiences, and responsive navigation across desktop and mobile interfaces
- Optimized visual assets, animation behavior, and responsive layouts to maintain consistent performance and presentation across screen sizes

Drift Music Platform | *Next.js, React, TypeScript, Node.js, PostgreSQL* Sep. 2025 – Dec. 2025

- Built a full-stack music platform with authenticated user workflows, GitHub OAuth, role-based permissions, administrative review tools, and PostgreSQL-backed CRUD functionality
- Developed React interfaces, application routing, forms, REST API integrations, and relational data workflows spanning frontend and backend application layers

Additional Experience

AWS Cloudathon | *24-Hour Team Hackathon, AWS* 2025

- Collaborated in a 24-hour team challenge to design and implement a cloud-based software solution using AWS services under a fixed deadline

Skills

Languages: TypeScript, JavaScript, Java, Python, C#, SQL
Frontend: React, Next.js, HTML5, CSS3, Responsive Web Design, Component Architecture, Accessibility, Animation
Backend & Data: Node.js, REST APIs, JSON, OAuth, PostgreSQL, MySQL
Testing & Tools: Git, GitHub, Browser DevTools, Playwright, npm, Vercel, Docker