Maxwell Reed

Software Developer specializing in Frontend

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EXPERIENCE

Freelance: Los Angeles — *Software Engineer* (ReactJS, TypeScript, TailwindCSS, NextJS)

2019 – 2020, June 2023 – Present

- Building websites for small businesses using *HTML*, *CSS*(*Sass*), and *TypeScript* (*SolidJS*, *React*).
- Planning, co-designing and building a mobile-first website for Colearnable (*NextJS*, *React*, *TypeScript*, *TailwindCSS*) as well as implementing accessibility following **WCAG 2.1** guidelines with **Wave**.
- Mentoring bootcamp graduates and junior engineers on frontend best practices.
- Reviewing, debugging, troubleshooting and performing code reviews leveraging *Git and Github*.
- Interfacing with clients and planning, designing and delivering projects according to their needs.

First Resonance: Los Angeles — *Frontend Engineer* (React, Tailwind, TypeScript, GraphQL)

April 2022 – March 2023

- Planning, designing and building responsive enterprise-level web applications (*React*, *Sass* and *Tailwind*) serving Fortune 500 companies.
- Significantly improving the performance of multiple website views up to **200%** and enhancing their scalability, documenting best practices in testing and frontend performance.
- Spearheading performance improvements by up to **25%** of *Apollo* queries and mutations utilizing **caching**; building custom **React** hooks to improve the functionality of frontend websites allowing faster development time and improving developer experience.
- Leveraging *TypeScript* to improve type-checking and code quality, saving development time by enabling efficient comprehension of complex portions of the codebase.
- Finishing sprints early and taking additional tickets to foster increased collaboration within the team, but also resulting in enhanced deliverables and overall productivity.
- Collaborating with the backend team to identify requirements for feature development.
- Producing beautiful and intuitive features based on collaborative **Figma** designs, liaising with the team to ensure optimal *UX/UI* solutions (e.g., via *React, Typescript, GraphQL*).
- Identifying bundler security and performance issues utilizing *webpack-bundle-analyzer* to find out-of-date dependencies reducing the bundle size by **15%** resulting in performance increases.
- Providing constructive feedback during code reviews using *Git/Github,* identifying and addressing any issues before merging changes into the production environment.
- Conducting customer visits to identify pain points and delivering customized features and workarounds improving their workflows.
- Committing to continuous learning and staying up-to-date with emerging technologies like *Vite*, *Semantic UI*, *TailwindCSS* and more to contribute to the team's success.

Apple: San Francisco — *Software Engineer* (React, Sass, TypeScript, Cypress, Playwright)

August 2021 – June 2022

- Debugging, troubleshooting and resolving critical issues (e.g., *React* and *Typescript*), such as preventing further bugs and unblocking critical features on core Apple applications and tools.
- Building out accessible and mobile-responsive *React* features following *WCAG 2.1* compliance.
- Optimizing *Cypress* and *Playwright* testing suites thus enabling comprehensive integration and end-to-end testing from **0% to 75%+** code coverage for multiple internal applications.
- Creating concise documentation to ensure seamless collaboration within the team.
- Designing a library for credentials verification in the Apple ecosystem using *Webpack* / *customize-cra*.
- Refactoring legacy test suites via *Playwright*, increasing quality of applications in Apple ecosystem.
- Implementing custom build scripts (e.g., *Webpack)* in different *JavaScript* environments (*Angular* and *React*) to instrument code, and ultimately provide code coverage using **IstanbulJS/***nyc*.

ADVANCED SKILLS

**ReactJS / NextJS / Redux
HTML 5 / CSS 3
Apollo / urql / GraphQL
JavaScript / TypeScript
Cypress/Playwright
Storybook
MaterialUI
TailwindCSS / Sass
Vite / Vitest / Jest
NodeJS / Express / PostgreSQL
Git / Github (Version Control)
AI (Copilot, gpt-3.5-Turbo, Stable Diffusion)
Web Accessibility (Wave, a11y, WCAG 2.1, WAI-ARIA)
SEO**

SKILLS

Databases (Relational / NoSQL)
React Router
Auth0
Webpack / Rollup
Material UI (MUI)
Semantic UI
AWS / Cloudflare / Vercel
RESTful API's
styled-components
Flatfile
ReactTable
BryntumGantt
Mocha / Chai
MongoDB
Svelte
Angular
Linear/Radar/Jira (Point Tracking)
Test Driven Development

Education

Chapman University
2014–2016 (**15 units remain**)
BA Communications Studies

Western Governors University
2023 – Present (**in progress**)

HopliteJS (NodeJS, Express, TypeScript, PostgreSQL, bcrypt)

December 2020 – May 2021

- Open source auth library using **LibSodium**, **argon2**, **bcrypt** and **JWT**s to hash sensitive user data.
- Utilizing TypeScript interfaces and types to create customizable stateless authentication methods.
- Creating accurate and customizable authorization methods that verify user privileges based on RBAC philosophy. Researching and implementing IAM best practices from OWASP and Okta.
- Leading agile team standups; employing kanban boards and wireframing tools to oversee issues while providing swift obstacle resolutions.
- Using **Git** for version control.
- Utilized agile project management with a SCRUM framework to optimize team workflow.

PROJECTS+

GandalficusAI (React, NextJS, TypeScript, Tailwind)

2023 – Present

- SSO Chat application with AI who responds like Gandalf from "The Lord of the Rings" using **gpt-3.5-turbo** built in **NextJS/React**.
- Leveraging OpenAI **gpt-3.5-turbo** API.
- Engineering prompts in order to create an AI that responds like Gandalf.
- Utilizing **Vercel** edge functions to stream OpenAI API responses to the screen.
- Leveraging server side rendering and client side components to create a chat application.
- Utilizing **Oauth** for single sign on capabilities to support users and user accounts.
- Using **MongoDB** to track and log user chats.

Personal Website (React, Preact, Tailwind)

2023 – Present

- Planned, designed and built a performant, responsive, and artistic React personal website using **React**, **Preact**, and **TailwindCSS**.
- Using semantic **HTML** tags and alt attributes to enhance SEO and accessibility.
- Creating logos, thumbnails and pictures with **StableDiffusion** and editing those items with **Inkscape**.
- Utilizing the browser audio API in order to create a custom audio player and audio analyzer waveform using **HTML** canvas to play music I've created myself or with my band!
- Utilizing **TailwindCSS** to perform custom **animations**, and using **TailwindCSS** best practices for code organization.
- Making use of **TailwindCSS** breakpoints in order to support multiple screen sizes.
- Created a custom React hook leveraging the browser intersection observer API to efficiently handle screen resizing the waveform analyzer.
- Deployed using **Cloudflare**.

Intuitracker (React, NextJS, TypeScript, Sass) *Under Construction.*

2023 – Present

- Job tracker to help prospective candidates track information, log the interview process, and take notes.

BS Computer Science

Codesmith
May 2021 – Graduated
Software Engineer Immersive

About Me

Lifelong learner! Always enjoys technical challenges and utilizing any resources available to level up new skills. Enjoys tinkering, working on cars, playing and teaching music.