Alfred Sta. Iglesia

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software engineer | new york

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technical skills

Strong: JavaScript [ES5+], React [Redux, Context, Hooks, Router], Node, Express, Mongoose, MongoDB, Sass, CSS3, HTML5, REST, WCAG
Experienced: PHP, TypeScript, GraphQL, Apollo, BCrypt, OAuth, Meteor, Electron, PostgreSQL, MySQL, AWS [EB, EC2], Python, Docker, Webpack, Parcel, TDD [Jest, Enzyme, Puppeteer], Git, Gitflow, Linux, Agile [Scrum, Kanban], Jira, Lucid, Figma

experience

Vaulted Oak | *software engineer* *2021–present*

- Implemented and deployed feature integrations, debugging and maintenance of web applications in a collaborative development workflow with client and designer, delivering an agile development process with responsiveness to handle ever-changing business demands
- Developed an application solution with the client by identifying pain-points and workflow optimizations that introduced automation and integrated commerce platforms to reduce process errors and inefficiencies while providing the technological headroom to scale business
- Architected the application UI by wire-framing and iterating designs in Figma and prototyping in React for concept proposal presentation
- Implemented an epic addressing accessibility optimizations in content perception, user interpretation, site-operability, and compatibility with assistive technologies to achieve WCAG 2.1 AA compliancy and increased demographic reach while minimizing legal exposure
- Provided mentorship through collaborative oversight, technical support, and the development of plans allowing for quality assurance testing by developing an increased understanding of technical scope and end-user perspective

Spearmint | *software engineer – developed under tech accelerator OS Labs (1000+ Github stars)* *2020-21*

- Employed Electron's open-source framework to deliver a cross-platform dev-tool with the feature integration of an accessibility-driven, sandboxed environment that abstracted away the task of generating of clean, semantic, and reusable accessibility tests
- Leveraged the Axe-Core accessibility testing engine utilizing Jest and Puppeteer assertions to provide test coverage against WCAG and Section 508 standards and facilitate adherence to a11y best practices for delivering inclusive UX's with decreased compliance risk
- Developed a React UI component structure while increasing keyboard compatibility, enhancing content perception with focus styling and compliant contrasting, and providing drag-n-drop functionality to optimize the application with a more accessible and interactive interface
- Utilized a Context+Hooks architecture in the observer design pattern, delivering global and local state to functional components while reducing code overhead and optimizing minification bundles for a concise, performant and scalable codebase
- Implemented a modularized Sass style-base taking advantage of locally-scoped classes, nested syntax, and styling variables to deliver an enhanced developer experience in a less repetitious codebase that's easy to read and fast to re-use

Gardiner & Theobald | *estimating engineer* *2016–20*

- Engineered a modeling algorithm aggregating empirical data with build specs while accounting for site complexities to create market valuations used by NYC-DDC to reconcile contractor costs and deflating over-runs to help save millions in FEMA disaster recovery funding
- Coordinated engineering efforts to prepare and reconcile project estimates of built-environments with valuations of up to $225MM

Sunset Sessions | *dj, audio engineer* *2001–present*

- Performed on vinyl, digital and hybrid set-ups to deliver live sets in big-room and intimate lounge environments
- Experienced in digital audio workstations, employing VST's and hardware for sound synthesis, audio processing and multi-track production

open-source contributions

enterprise-POC | *project order drafting application* *2022–present*

- Developed a Redux+Hooks architecture to maintain a single-source of truth for application state in a functional component paradigm resulting in an organized, easy to read codebase with minimal code overhead and highly scalable state and component trees
- Implemented a back-end application with a Node+Express runtime to deliver a non-blocking I/O model for data flow requests
- Executed GraphQL read/write operations, exploiting strongly-typed query and mutation schemas to improve API performance and network efficiency by eliminating over- and under-fetching while providing single-call access to nested and composite data

OS Cards | *flash card application* *2020–21*

- Configured Webpack to increase application scalability through the minification and uglification of application files to decrease bundle size, speed up development with hot module reloading, and ensure cross browser compatibility through ES6+ and JSX transpilation
- Leveraged React-Router to deliver a performant and seamless SPA by implementing dynamic client-side routing for view management that eliminates page refreshes while boosting application speed, an overall reduction in server calls, and improved code clarity

education

- Codesmith | *software engineering advanced immersive* *2021*
- University of California, Los Angeles | *certificate, awarded with distinction* *2018*
- New Jersey Institute of Technology | *BS engineering technology, magna cum laude* *2011*

talks & publications

- User eXperience Best Practices | *SingleSprout speaker series* *2021*
- Introducing Accessibility to Spearmint | *CodeX* *2021*

passions

architecture & design in all its forms | jam sessions behind the decks | culinary innovations in the kitchen | laying first tracks on a bluebird day