

Tanner H. Lyon Software Engineer

(661) 208-1410

Tannerhlyon@gmail.com

<http://linkedin/in/tannerhlyon>

<http://github.com/THLyon>

TECHNOLOGIES

Strong: JavaScript (ES6+), React (Classes, Hooks, Router), Solid.js, TypeScript, Node.js, Express.js, SQL (PostgreSQL), NoSQL databases (MongoDB), HTML5, CSS3, SASS/LESS, jQuery, Git, webpack, Vite, Containerization, TDD (Jest, Mocha), Deno

Experienced: Redux, Docker, Machine Learning, Python, D3.js, Kubernetes, Vue, AWS/Cloudtech, OAuth

EXPERIENCE

Codesmith | Software Engineer

2022

- Optimized legacy codebase by replacing deprecated SQL utilities with updated PostgreSQL queries, as well as improving middleware unit testing, to increase performance and enhance platform reliability
- Performed regular in-depth code reviews for junior engineers as well as provided instructions while conducting one on one mentoring sessions to promote software engineering best practices in full stack React and Node.js tech stacks
- Led technical interviews evaluating potential junior engineers on their technical abilities (Object Oriented Programming, Recursion, Closure), technical communication, best practices and analytical problem solving abilities
- Delivered technical training for engineers on advanced algorithm challenges, TypeScript, Data Structures, Asynchronous Javascript, Recursion in Nested Structures, React-Redux, and TDD
- Mentored teams of engineers in the open source community through Software Development Life Cycle (SDLC) to consistently maintain agile workflow, dynamic team communication and successful product launches while meeting established deadlines

Solid Structure | Open Source Front-End Developer Tool | Software Engineer

2022

- Utilized SolidJS frontend library for its fine grained reactivity built on primitives to produce one time executed component loading while reliant on hooks, signals and bindings, facilitating unidirectional data flow and immutable interfaces rendered on the DOM
 - Implemented TypeScript for its strict error handling and static typing, allowing for efficient development in large scale products due to its structured syntax and immediate debugging as a result of finding errors before runtime
 - Accomplished display and deployment of collapsible hierarchy tree and dependency graph, utilizing D3JS for the data visualization library's great control and ability to manipulate SVG, HTML, and CSS files
 - Executed product using Chrome Extension DevTools Panel to access data from a browser-rendered SolidJS application, allowing developers to utilize a tool that reads and implements a visualization of data stores, SolidJS signals, and component functionality
 - Product developed under tech accelerator OS Labs (opensource.labs.io)
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OPEN-SOURCE

Mission Tuition | Education Focused Crowdsourcing Benefactor Platform

- Implemented React Hooks functionality to deliver reusable and reactive components for ease of maintaining a DRY codebase while utilizing React's component modularity
- Utilized Redux for the predictable state management methods in global store ultimately optimizing performance through highly effective state persistence with consistent and straightforward data flow, eliminating the need for prop drilling.
- Deployed Express while utilizing middleware functions for its expedited build time and quickly served routes, with minimalistic simplicity and non-opinionated design, allowing for application structure flexibility while providing ability for future scalability.
- Designed a relational and portable database to store client data using PostgreSQL for its tabular ACID compliant structure, interactive language and specific focus on protecting user data integrity

Gimme | Reactive Chrome Extension Displaying PGA Tour Scoreboard

- Utilized container patterns in React to create a component-based architecture allowing for great modularity and reactivity for both a maintainable and scalable codebase
 - Created authentication cookies dedicated to preserving user data, settings, and preferences focused on allowing for more customization for user interactions while protecting data and product integrity.
 - Employed the fast processing Node.js for the runtime environment's robust technology stack, utilized for its great benefits of efficiency, productivity, event-based model, and asynchronous request handling to facilitate communication between the frontend, backend, and NoSQL database.
 - Designed and deployed NoSQL MongoDB database for the immense flexibility of the dynamic schematic architecture creating a non-structured data storage, horizontal scalability through sharding and ad-hoc querying allowing for future querying
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TALKS // PUBLICATIONS

2022

- Containers - Single Sprout Tech Talk
- Solid Structure - A SolidJS Developer Tool (Medium, Dev.to)
- Intro to Javascript: Functions and Objects
- Intro to Javascript: Variables and Looping

EDUCATION - Bachelor of Arts | CSU, Chico State, 2011 - 2015

INTERESTS

Fly-Fishing, camping and overlanding Film Photography (street and nature), Film Development and Printing, Golf, Wakeboarding, Mountain Biking, Reading science fiction (Hyperion, Dune) and Kurt Vonnegut (Slaughter-House Five, Sirens Of Titan), Narrative writing