Tanner Peterson

Software Engineer

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Technical Skills

JavaScript (ES6+) | TypeScript | React.js | Redux | Node | Express.js | Koa | HTML | AWS(EC2, Lambda, Elastic Beanstalk) | CSS/Sass | SQL(PostgreSQL/MySQL) | Git | NoSQL Databases (MongoDB) | RESTful API | TDD | WebSocket | Svelte | Deno | Webhooks | Docker | Python | CI/CD

Experience

NOVAS | Software Engineer | Open-source Compiler/Build tool   2021-Present

- Introduced a fast and lightweight command line build tool for compiling and bundling Svelte components into a Deno (JavaScript/TypeScript) runtime environment allowing users to create Svelte applications while offering the security and simplicity of Deno.
- Developed custom bundler and CLI using TypeScript to enforce strict type checking and defer from undesired type coercion and increase consistency amongst a team of developers.
- Utilized a persistent websocket connection, designed and integrated a hot module reloading feature by triggering an automatic rebuild of the application upon the change of any source code file, reloading the browser throughout the development phase.
- Deployed product homepage (novas.land) using Google Firebase to containerize and host the product website allowing for ease of use in updating documentation and bug fixes in subsequent versions and cost-effective overhead.
- Utilized memoization to allow Svelte's compiler to efficiently resolve an application's dependency graph avoiding compiling the same file multiple times.
- Conducted testing throughout development phase to production launch, identifying and correcting major issues while refactoring and optimizing code functionality and logic to resolve any conflicts before critical deadlines.
- Implemented the native Deno HTTP library to leverage a system-level programming language, Rust, as the development server, increasing speed and response performance compared to initial time with Oak and Opine alternatives.
- Product developed under tech accelerator OS Labs.

US Air Force | Firefighting and Refueling Vehicle Maintenance   2012-2016

- Lead team of 6 and streamlined daily operations of maintenance and refueling shop.
- Diagnosed malfunctions of firefighting and refueling equipment to determine the repair/replacement or disposition of assets.

Projects

StudyBuddy | Software Engineer | Foreign Language Study Tool

- Utilized Express.js middleware framework to establish a minimal and flexible node.js server.
- Leveraged a NoSQL database creating a flexible schema for rapid ramp up development and future horizontal scalability, fast data access, in-place updates, easy replication, and high availability.
- Applied React Hooks to manage flash card display and updates in stateless components without the need for bind methods and lengthy code blocks, improving readability and application efficiency.

Movie Finder | Software Engineer | Movie Recommendation

- Deployed a mobile first React application to serve users with randomized and unbiased movie recommendations, utilizing touch swipe feature to quickly navigate through recommendations and favorite a personal list.
- Incorporated React Router, displaying multiple client views on a single page application to create a cohesive user experience.
- Leveraged Amazon Web Services (AWS RDS) to host a relational database and provide access to data points based on user specific requests.

InterviewHub | Software Engineer | Interview Review and Preparation Platform

- Utilized WebRTC API to integrate live P2P video calling into a React App.
- Integrated OAuth 2.0 with passport.js to offload authentication to a popular and trusted third-party authentication solution, thus reducing user bounce rates and eliminating the need to hash sensitive user information.

Talks and Publications

An Intro to Deno (A New, Secure Alternative to Node) | Single Sprout Software Engineering Speaking Series
NOVAS | Accelerating Svelte and Deno Application Generation | Medium Article

Education

Codesmith, Certificate, Software Engineering Residency
University of Oregon, BS, Spatial Data Science & Technology
Community College of the Air Force, AAS, Vehicle Maintenance