

Gabriel Kime

Full Stack Engineer

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TECHNOLOGIES AND SKILLS

Strong: Javascript ES6+, Typescript, React, Astro, Redux/Redux Toolkit, Material UI, Radix UI, HTML5, CSS3, SASS, UX design, Node, Express, MySQL, PostgreSQL, Jest, Testing Library, MongoDB, Webpack, Git/Github, Jira, Agile

Experienced: Python, TDD, OAuth, BCrypt, Gulp, Adobe Illustrator, Wordpress

EXPERIENCE

SeeQR (Open Source) | SQL schema visualization and query analytics tool | Front End Software Engineer

- Added support for MySQL and refactored the codebase to allow modular implementation of other RDBMS.
- Used Typescript to ensure type safety and legibility, and cleanly document data flow across the application, reducing type-related errors.
- Refactored existing Electron IPC channels and fetch structure, reducing the number of API requests needed from the front end by 80%.
- Cut development time and streamlined UI/UX implementation process by 50%, using the Material UI library to theme and style components.
- Utilized the React-flow library API to dynamically render nodes containing SQL table meta-data and map them using a dynamic sort algorithm.
- Performed code review before merging pull requests into dev and production builds.
- Worked with a remote team using Agile methodologies and tools including Jira.
- Mentored other engineers on best practices, empathetic engineering, and technical communication.
- Product developed under tech accelerator OS Labs (opensource.labs.io).

Chagdud Gonpa Foundation | Website Administrator

- Worked to complete migrations from a WP to a Shopify storefront in Q4 2020, resulting in a 30% increase in customer retention.
- Oversaw day-to-day operations of Shopify storefront for a successful Ecommerce business.
- Overhauled site content and layout for UX optimization and SEO, using HTML5, CSS, and Javascript in response to analytics.
- Administered internal business networks, troubleshooting issues, and hardware and software upgrades.
- Reduced internal network downtime by 10% from Q1 2021 - Q4 2021.

OPEN SOURCE

StewPot | Smart recipe suggester with LLM integration | Full Stack Software Engineer

- Developed in Typescript- multiple API integrations with unstandardized data structures required robust type safety and legibility.
- Frontend coded using React as the frontend development library of choice, for its robust and mostly-optional library integration, and competitive performance, support, and state-management (via redux-toolkit) advantages.
- Made use of Material UI components and custom themes to reduce development ramp-up while delivering an attractive and responsive UX.
- Built out the backend using the Express framework in conjunction with node Fetch, in order to easily modularize route-handling for first-party and third-party API requests, and more securely and performantly perform API requests.
- Implemented PostgreSQL, as the means to manage sensitive user data in an ACID-compliant and SSL-encrypted data environment.
- Generated salted hashes using BCrypt in order to protect sensitive user information from dictionary and brute force attacks.
- Integrated OpenAI's GPT4 API in order to parse data and respond with personalized experiences for users based on app use and analytics.

PlantR | Virtual Greenhouse and Digital Experience | Full Stack Software Engineer

- Used React with hooks to build out a Frontend that combines reusable components with reusable hooks for flexibility and maintainability.
- Designed and implemented custom vector graphics and animations with CSS styling to build out a bespoke analog-inspired dynamic UI.
- Integrated React DnD-kit sortable components library, for a more immersive, intuitive, and customizable user experience.
- Created a custom algorithm to translate sort-data exposed by DnD-kits's API into a data shape compatible with PostgreSQL's row-update-order implementation when updating multiple SQL table rows iteratively. This allowed significant optimization over the previous implementation.
- Leveraged Express.js's lightweight templating and routing architecture to rapidly deploy a modularized RESTful API.
- Made use of a PostgreSQL relational database to store user data in a fully ACID-compliant format, ensuring data integrity and fault tolerance.

Talks/Publications

- Microservice Architecture (Sponsored By SingleSprout)

Education

- B.S. Willamette University 2013

Additional hobbies/passions/interests

Reading sci-fi, fantasy, and anthropological literature | **Video games** (Currently playing Apex Legends and Dyson Sphere Program) | **Hiking** (Current fav spot: The Big Quilcene Trail in the Olympic Foothills) | **Raspberry Pi Tinkering** | **Cooking** | **Leveling Up** :)