Michael Oh | Software Engineer | Los Angeles

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TECHNICAL SKILLS
Strong: JavaScript (ES6+), Node.js, Express, React (Context, Hooks), Redux, SQL — Postgres, RESTful APIs, Knex, Webpack, Bcrypt, Cookies, JWTs, HTML5, Git, SCSS, CSS3
Experienced: TDD, Jest, Mocha, Chai, Enzyme, Agile/Scrum, Heroku, Vercel, ElephantSQL, Digital Ocean

OPEN-SOURCE WORK
Saneful | GitHub: Survival-based web game
● Leveraged React to create reusable components and promote a maintainable codebase that is in line with flux architecture.
● Used React Hooks such as useContext, useEffect, and useState to create a more flexible environment, manage user information, and enable the ability to reuse complex logic.
● Implemented PostgreSQL database to have relational data stored and accessible to be ACID compliant with strict schemas, enabling concurrent connections from multiple clients that can update game state and have changes reflected for other players.
● Utilized helmet as an Express.js middleware that helps secure HTTP headers and prevent attacks such as Cross-Site-Scripting.
● Leveraged morgan middleware in Express.js to log HTTP requests and errors to simplify the debugging process
● Utilized SCSS to style multiple game windows, and to create a fully responsive application with code that is syntactically clean.
● Deployed front end codebase using Vercel with configurations that stashes API key within the environment to reduce insecurities in application.
● Troubleshot errors with Heroku by using Digital Ocean and ElephantSQL to successfully deploy both the server code and PostgreSQL database to new domain.
Hozen| GitHub: Language learning tool
● Utilized Node.js to create a spaced-repetition learning system by implementing the linked list data structure wrapped into an API call that accommodates PostgreSQL database queries.
● Bolstered existing codebase of NPM package with TDD by rewriting unit tests for existing code and writing new ones to implement new features, ensuring library's functions worked as expected in isolation and functions did not produce undesired side effects.
● Improved testing in React codebase by utilizing Cypress.io to inject end to end testing to ensure code maintainability resulting in more accurate and clean user experiences.
● Incorporated CSS and flexbox to ensure that each route is responsive to screen size and scales with any device.
● Used Jest to create smoke tests for each component that reduced risk of errors in the codebase as well as catch, recognize, and locate any bugs that may be going into production.
● Deployed front end codebase using Vercel with configurations that stashes API key within the environment to reduce insecurities in application
● Leveraged Heroku to deploy server codebase and PostgreSQL database with configurations to secure public application and connect to front end application to maintain functionality of project.
Subroom| GitHub: Subscription-management tool
● Used React Router to decrease server calls, increase application load speed, and minimize taxing DOM re-rendering by declaring particular routes and components to conditionally render, displaying multiple views within an SPA, handled on the client side.
● Established Express.js server to efficiently handle HTTP/API requests to myriad endpoints by engaging the middleware design pattern, writing routers and controllers to modularize backend requests with a discernible chain of responsibility for readable code.
● Incorporated CSS and flexbox to ensure that each route is responsive to screen size and scales with any device.
● Incorporated Bcrypt to secure client passwords in PostgreSQL database by utilizing native one-way hashing algorithm, ensuring best practices in storing sensitive data, protecting against dictionary attacks due to salt rounds randomizing authorization flow.
● Implemented persistent authentication with JWTs to ensure user fidelity and application security by verifying authenticated user, improving UX by preventing unnecessary logins and access by malicious actors, avoiding session ID/database calls.
● Built application with Webpack for future scale, maintainability and faster load times by writing configuration to utilize hot module reloading, ES6+ transpilation for developer packages, and using minification and uglification features to decrease bundled file size.
● Deployed front end codebase using Vercel with configurations that stashes API key within the environment to reduce insecurities in application.
● Leveraged Heroku to deploy server codebase and PostgreSQL database with configurations to secure public application and connect to front end application to maintain functionality of project.

EXPERIENCE
CJ Foods | Accountant 2019-2020
● Utilized Microsoft Excel to create weekly aging reports as well as keep track of profit & loss sheets and balance sheets.
● Used SAP as a data management software to interact with various databases daily and handle large amounts of data.
● Learned importance of organization skills to effectively get tasks done in a timely manner.
● Experience in working with a diverse team and practiced excellent communication skills to prevent confusion with teammates and clients.

EDUCATION
University of California, Riverside | B.A.
Thinkful | Software Engineering Immersion

INTERESTS
| Basketball nerd and die-hard Clipper fan, sadly | Love coffee and learning everything about it | Avid podcast listener | Socal > Norcal| Very good at Call of Duty |