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## TECHNICAL SKILLS

**Proficient:** JavaScript (ES6+), React (Hooks, Context API, Router), Redux, Node.js, OOP, Express, Bcrypt, Version Control (Git/Github), Relational/Non-Relational Databases, RESTful API, HTML, CSS, Sass/SCSS, Webpack, Material-UI, Agile/Scrum  
**Strong:** AWS, GraphQL/Apollo, jQuery, Electron, Bootstrap, Jest, Enzyme, Puppeteer, TypeScript, Responsive Design

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## EXPERIENCE

**ReactType** | Software Engineer | *A visual prototyping tool for developers employing React component architecture alongside the comprehensive type-checking of TypeScript.* 2021 - Present

- Enforced TypeScript's strict typing system for early detections of compile-time errors during the development phase by defining interfaces for state and components to provide structure for the other engineers to follow.
- Incorporated React's container pattern to create an application with modularized, reusable components that maintains DRY principles and separates stateful and presentational components for unidirectional data flow from Higher-Order Components.
- Implemented React Hooks in conjunction with the Context API to extract stateful logic from functional components to be reused independently without altering the component hierarchy independently to avoid prop drilling in the application.
- Leveraged GraphQL's flexibility to reduce query load by specifying exactly what type of data is required from the client side. Created a definitive GraphQL schema to handle the communication between all of the microservices into one location.
- Utilized a Non-Relational Database to store user documents into their respective collections and to take advantage of the flexibility, maintainability, and scalability offered by Non-Relational Databases compared to Relational Databases.
- Used Electron to produce a standalone React/Node.js/Chromium desktop application while taking advantage of Electron's cross-platform compatibility, security measures, various framework support, and time saved in distribution of the application.
- Optimized the UX with Material-UI's accessibility features by incorporating universal design principles that comply with the WCAG-2.1 AA for improved operability through the implementation of character key bindings for mouse-free usage.
- Product developed and maintained under tech accelerator OS Labs ([opensourcelabs.io](https://opensourcelabs.io)).

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## OPEN SOURCE WORK

- **PaperTrail** | *Receipt Tracking Visualizer*
  - Established Node.js/Express server to efficiently handle HTTP/API requests to a myriad of endpoints by engaging the middleware design pattern, writing routers, and controllers to enhance readability and for a more organized file structure.
  - Incorporated an Optical Character Recognizer API to scan the price of user submitted receipts that were then rendered to the page calculating the total amount spent per user-defined category and stored in a NoSQL Database.
- **PlayDate** | *Social Dating Platform for Pet Owners*
  - Used React Router to boost loading performance by establishing dynamic, client-side routes to minimize server requests.
  - Built application with Webpack for future scale, maintainability, and faster load times by writing configuration to utilize hot module reloading, ES6+ transpilation, and using minification and uglification features to decrease bundled file size.
  - Utilized Bcrypt's password-hashing functionality for complete anonymity between the user and the application when storing sensitive user data in a Non-Relational database, and for increased resistance against brute-force attacks.
- **Preppy** | *Discounted Meal Prep Planner*
  - Implemented a SQL database to store relational data to be ACID compliant following strict schemas with guaranteed transactions, leveraging isolation to handle multiple users concurrently and durability in the event of a system crash.
  - Used React in conjunction with Bootstrap to create dynamic components with pop-up modals upon certain user actions. Maximized maintainability and modularity by separating stateful components and presentational components.

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## EDUCATION

California State University East Bay | B.S.

Hayward, CA

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## RECENT TALKS & ARTICLES

- **TypeScript: Strict Typing Systems, the Missing Piece of JavaScript**
  - A brief history of TypeScript, the argument for static types, a comparison for alternative static type checkers, and potential use cases, and a live demo. Sponsored talk by Single Spout's Speaker Series.
- **ReactType: Collaborate on your next React Project** | *Medium Article*

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## INTERESTS

Martial Arts | Travel | Exercise & Wellness | Skateboarding | Hiking Griffith Park (50 mi/100k steps Dec 2020) | Gonzo Journalism | Green Juice | VR news | Finding the best sushi spot in LA | Snowboarding | Espresso | St. Jude | Cab Sauv