

# Jay Heo

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## TECHNICAL SKILLS

**Strong:** JavaScript (ES6+), React, React Hooks, Redux, TypeScript, Next.js, Node.js, Express, RESTful API, WebSocket, React-Native, Firebase, Firestore, OAuth, bcrypt, Webpack, PostgreSQL, MongoDB, Jest, CI/CD (GitHub actions, Vercel), Context API, HTML/CSS/Sass/Tailwind/Stylesheet/Tamagui, Emotion, Bootstrap, Git/GitHub, Figma

**Experienced:** Docker, AWS (S3, EC2, RDS, CloudFront), React-Query, Mocha, Swagger, Python, Bun Runtime

## EXPERIENCE

**Mustadd** | *Software Engineer*

**Aug 2022 – Aug 2023**

- Played an active role in system design discussions and brainstorming sessions to architect scalable and reliable solutions
- Led the creation of the company's landing page using Next.js to enhance page load performance and also integrated Mailchimp into the landing page to manage email subscriptions and efficiently send updates to interested users
- Designed the user interface and user experience (UI/UX) for the workflow of the product using Figma for real-time collaboration features to work effectively with cross-functional teams and gather feedback
- Developed the frontend of the company's product using Expo for building cross-platform React Native applications and leveraged Expo's built-in components and modules to expedite development and focus on core features

**Reactrix (OS Labs)** | *Open-Source Tool* | *Software Engineer*

**2021 - 2022**

- Authenticated through GitHub OAuth 2.0 allowing the users to access simply and securely
- Utilized React Router to reduce server calls, and to maintain the responsiveness of the single page application which improves the user experience
- Capitalized on the React Fiber concept introduced in React 16 to successfully extract the duration time of the desired React component tree
- Implemented the "drag-n-drop" feature by initializing each component with a randomized id then using nested objects to identify the placement of the desired component's position
- Organized appropriate end points using Express to listen and respond to the incoming requests from the client, and integrated the database with PostgreSQL for reading and writing the relational data

## PROJECTS

**MockView** | *Frontend Engineer*

**2023 - current**

- Designed and developed its interface with features like secure authentication using access tokens and refresh tokens, and protected dynamic routes which authorized users can access and speak with our trained AI interviewers in real-time to prepare for technical interviews
- Significantly lowered the latency in communicating with the server by developing a real-time, full-duplex communication channel using WebSocket, eliminating the unnecessary requests and only receiving when there is a response
- Achieved a seamless and responsive user experience during the interviewing process by implementing advanced message handling techniques such as throttling and debouncing, which allowed for the efficient management of the high volume and velocity of messages

**Giverr** | *Software Engineer*

**2023**

- Integrated SMS sign-in feature with Firebase Authentication to provide a reliable and simple authentication for the onboarding users
- Developed visually compelling and dynamic onboarding animations using the React Native Reanimated library to feature fluid, and high-quality animation features while maintaining a high level of responsiveness and user interaction
- Designed a calendar interface that displays the user's saved contacts' birthdays by utilizing the Expo-Contacts library for requesting permissions and fetching the necessary data such as birthdays and names

**Max** | *Daily Self-Reflecting App* | *Front-end Software Engineer*

**August 26, 2023**

- Utilized React Native with Expo CLI due to its familiarity with React.js/Next.js and its compatibility with both iOS and Android platforms
- Leveraged various React Native libraries to create a highly interactive and user-friendly mobile application
- Strengthened problem-solving skills by addressing technical challenges and debugging issues in real-time

## EDUCATION

**University of California, Santa Barbara**, B.A. Sociology | Technology Management Certificate | 2019

## ADDITIONAL INFORMATION

**Languages:** English (Fluent), Korean (Fluent), Spanish (Educated Basics)

**Interests:** personal accounting, web 3.0, golf, soccer