Software Engineer

Erick Melendez

Experience

Artemis | Software Engineer | OSLabs

2020 ~ 2021

- Utilized React to create reusable components and leverage the reconciliation algorithm in order to re-render parts of the DOM that have changed
- > Implemented React Context API to consume and provide a single source of truth, simplify the data flow between components and maintain a cleaner codebase by removing needless prop drilling from stateless components
- Outlined a modern Neomorphic UI with CSS Grid and leveraged CSS Flexbox to create a responsive, mobile-first UI regardless of screen size
- Selected Aleph to build a dynamic React Application and pre-render the application server-side at build time before displaying to the client for quicker initial load times as well as update Artemis, through Hot Module Reloading, during development without having to restart the server on every change
- Integrated Chart.js for its minimalistic design and small module size
- Architected a Deno server to produce a lightweight application with Deno's module system and safeguarded Artemis by utilizing its security measures to prevent unwanted script injections or file access from modules at runtime
- Applied Typescript across the stack to create a more predictable code base through explicit type definitions and greatly improve code maintainability by decreasing type casting errors

Papyrist | Software Engineer | OSLabs

2020 ~ 2021

- Incorporated Styled-Components to leverage Automatic Critical CSS benefits by having the client render only what is necessary and further separate CSS styling and Javascript logic within React Framework
- Deployed React Router to enhance UX by reducing unnecessary full-page DOM re-renders and create a smoother transition between pages
- Constructed a Node.js and Express.js backend to facilitate multiple requests with Node's non-blocking asynchronous request handling

ChatterBox | Software Engineer | OSLabs

2020 ~ 2021

- > Adopted **SASS** to improve extensibility and readability of stylesheets and ensure that the design of each component remained modular and independent
- Overhauled the PostgreSQL database to be normalized to the 3rd form and remove unnecessary joins when querying
- > Encrypted user data with **BCrypt** to keep sensitive user information secure and prevent brute force or rainbow table attacks via randomized salt rounds

PawFinder | Software Engineer | Healthy Spot

2018 ~ 2019

- Overhauled application with React hooks to share logic between multiple components using custom hooks and to reduce bloat and increase readability for future developers
- Connected a MongoDB to achieve high-speed query responses and lessen the need for complex queries by storing related data in single documents while using Mongoose to communicate with the database to ensure database schemas remained consistent when manipulating documents
- Configured Webpack to utilize hot module reloading for faster debugging and to enable the help of loaders, such as Babel, to transpile ES6 into ES5 Syntax

PawAcquisition | Data Engineer | Healthy Spot

2018 ~ 2019

- > Accompanied brand ambassadors to collect data on people we meet on the streets in an Excel Spreadsheet
- > Mapped out statistically relevant data within **Python** for brand ambassadors to better target customer acquisition
- Designed a layout with Javascript, HTML, and CSS to better visualize statistical data

Contact Info:

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Technical Skills

Languages ~

JavaScript (ES6+)

TypeScript

Python

Frontend ~

React (Hooks, Context API)

React Router

Redux.js

CSS / SASS / Less / SCSS

Tailwind CSS

Styled Components

HŤML

Electron

Aleph

Backend ~

Webpack

Node.js / Express

Deno / Oak

Websockets

OAuth 2.0

Auth (cookies, sessions)

Databases ~

PostgreSQL

MongoDB

GraphQL

Testing ~

Jest

Enzyme

Supertest

Workflow ~

Git / Github

VS Code

Agile

Jira

Scrum

Figma

Education

SMC ~ A.S. - C.P.

Computer Science

Codesmith

Advanced Software Engineer Residency

Interest

Museum Docent

- ~ NHMLA
- ~ LBTP

Bird Lover

- ~ House Sparrow
- ~ Lvrebird
- ~ Blue-and-Yellow Macaw