

# Aaron Bumanglag | Software Engineer | Los Angeles, CA

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## Technical Skills

**Strong:** JavaScript (ES6+), React (Hooks, Router, Context), Redux, Node.js/Express, SQL (Postgres), NoSQL (MongoDB), Git/GitHub, Unit/Integration Testing (Jest, Mocha, Enzyme), HTML, CSS, Agile Development

**Experienced:** TypeScript, Docker, AWS(EC2, S3, Elastic Beanstalk, RDS), CI/CD, MUI, SASS/SCSS, WebPack, Next.js, Electron

## Experience

### ReactType | Software Engineer

2020

- Developed a React application prototyping tool that provides developers with an easy-to-use platform to visually design, generate, and export custom boiler-plate code to minimize the initial set-up stage of their product
- Implemented state management with React Context API, allowing for easy access to a global state hierarchy with the consumer/provider pattern while reducing the need for redundant prop drilling
- Utilized TypeScript for its use of types and interfaces to structure and maintain code while minimizing compile-time errors
- Implemented a NoSQL database to store unstructured, abstract representations of a users project based on canvas renders
- Used a Node.js/Express server to construct RESTful API routes with middleware to handle asynchronous database queries and to perform user authentication with session tracking
- Constructed a unit testing suite with Jest, automated with TravisCI to ensure codebase stability while safeguarding against potential merge conflicts
- Product developed under tech accelerator OS Labs ([opensourcelabs.io](https://opensourcelabs.io))

### Hawaii Medical Service Association | Configuration Architect

2017 - 2019

- Conducted unit and integration testing to validate software updates based on product BRDs
- Developed scripts to automate the monitoring process of healthcare claims stored in a MSSQL database
- Utilized Agile development best practices to configure an end-to-end claims processing system; participated in daily stand-ups, two week sprints and retros to establish user stories and tasks based on epics

## Open-Source

### Pandaudio | Live Music Sharing

- Implemented React Hooks to enable the use of lifecycle methods and state management within functional components
- Leveraged Material-UI to accelerate the frontend design process while adhering to a consistent user experience
- Implemented PostgresQL queries in Express middleware functions to asynchronously retrieve user song information

### FairPay | Employee Compensation Monitor

- Designed an ACID-compliant SQL database to store salary information across different employers; enforced schemas containing one-to-many and many-to-many relationships for better scaling while preventing data redundancy
- Created a build script for PostgresQL to quickly recreate database tables with preloaded data for backup and recovery
- Implemented Oauth 2.0 using PassportJS to provide end-users with a secure sign-in process to LinkedIn

### DevShark | Developer Resource Aggregator

- Created a Webpack configuration file to reduce browser loading time through bundling, minification and uglification; enabled hot module reloading to improve development efficiency by updating modules at runtime without full refreshing
- Incorporated flux architecture with Redux to manage an immutable, centralized state while reasoning about changes through a unidirectional data flow

## Education

University of Hawai'i at Mānoa | BBA, Management Information Systems, Cum Laude

Relevant Coursework: Programming Application Systems, Database Systems, Software Engineering, Discrete Math for CS

## Public Talks

### Building Modern CI/CD Pipelines | SingleSprout Software Engineering Speaker Series

2020

## Interests

Fantasy Football | Food & Travel Vlogs | Competitive League of Legends | Investing Books | Ahi Poke | Golf (8 Handicap)