Henry P. MacAfee

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Work Experience

SOLSTICE, LLC   **Nov 2019 – Present**

ReactJS Engineer

Noteworthy Projects:

- **Management Dashboard:** *ReactJS*/*Firebase*/*Adobe XD*: CRUD for artist/project management, including file upload, storage, metadata extraction, and inline audio playback. I modeled and implemented a three-way access structure for a payment split system, requiring record persistence after update or deletion. For form fields I used *Formik*, along with *Yup* for validation, as well as some dynamic custom validation rules. I designed the dashboard first using *Adobe XD*.
- **Project Store:** *ReactJS*/*use-global-hook*/*react-bootstrap*/*CSS Modules*: Fetches data from *Firebase*. Again I implemented a custom audio playback widget for each track. I hooked the project store into the site cart functionality using *use-global-hook* (similar to the more modern useContext API).
- **User Authentication:** *ReactJS*/*Firebase*: I used built-in Firebase authentication for all users, with a custom user collection to store user profile data.

FREELANCE WORK   **2002-2008 / 2015 – Present**

ReactJS/React Native/Gatsby Engineer and Designer

Noteworthy Projects:

- **Static Sites:** *Gatsby*/*GraphQL*/*Netlify*: I used static site generators such as *Gatsby* to optimize render times for static sites. I built a barbershop website, and a number of other sites for small businesses and friends.
- **Social Recommendation Engine:** *ReactJS*/*React Native*/*Node*/*Express*/*Docker*/*Neo4j*: I modeled a collaborative social network using *Neo4j* in a *Docker* container as my graph database, and used it to recommend other collaborators (much like Friends You Might Know on Facebook). I also wrote some *Python* scripts to do some batched data fetching to populate my dataset. Migrated the whole project from *React* 15 with Class components to a *React 16* functional-component-with-hooks structure.
- **h-mac.net:** *Invision Power Board*/*PHP*/*HTML*/*CSS*: I built and administered a forum for my local

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friend group using *Invision Power Board*, IPB Themes, and custom *CSS* for styling. I also managed a team to assist in moderating our 200+ members and their posts.

- **Graphic Design:** *Adobe Illustrator/Photoshop/Creative Cloud*: I designed posters and pamphlets for concerts, venues, and other events.

Technologies

React, React Native, JavaScript (ES6/ES7), HTML, CSS, Gatsby, Firebase, NodeJS, Express, Docker, Neo4j, GitHub, Git, NPM, Yarn, SQL, Netlify, Adobe Cloud

Exposure to: Python, MongoDB, Angular, GraphQL, CI/CD

Education

2011 - 2013   Austin Peay State University
Master's in Violin Performance

2006 - 2011   Tennessee Tech
Bachelor's in Music Composition

Violin Teaching Experience:
Maintained a studio of 20-30 violin students between 2012-2019

Hobbies and Interests

NashJS
Music
Photography
Coffee
Design
Aviation
Exercise
Travel