CARINA KAN

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SKILLS

Ruby, Ruby on Rails, JavaScript, Python, React.js, Redux.js, HTML, CSS, AJAX, BCrypt, Byebug, Capybara, ERB, ES5/ES6, Express.js, Git, Heroku, Jasmine, jbuilder, jQuery, JSON, JSX, MongoDB, Node.js, NPM, Object Relational Model (ORM), PostgreSQL, RESTful APIs, RSPEC, SQL, Test Driven Development (TDD), VS Code, Webpack, D3.js, SCSS

PROJECTS

Curator | *(Ruby on Rails, PostgreSQL, JavaScript, React/Redux, HTML, CSS)*   **live** | **github**
Pixel-perfect tribute to Feedly, a popular customizable news aggregator that parses RSS feeds
- Ensured user privacy by salting, hashing passwords with BCrypt, and using Rails database constraints, Active Record model validations, and protected routes with React Router
- Utilized PostgreSQL and Rails routing to create RESTful JSON API endpoints and a normalized relational database with strategic indices to optimize read times
- Leveraged RSS, MetaInspector Ruby gems to scrape and parse real-time article data from news sites' RSS XML files to dynamically render most recently-published articles to users
- Designed modal framework, with Redux unidirectional data flow and thunks to create reusable components which seamlessly render article detail and login form pop outs to user
- Used Active Record Ransack and React lifecycle methods to create dynamic search bar component
- Employed CSS Grid Layout, CSS Flexbox and JSX to design a clean, adaptable and intuitive UI

MoodyTunes | *(MongoDB, Express.js, Node.js, React/Redux, HTML, CSS)*   **live** | **github**
Music-sharing site where users can find and follow the perfect playlist for their mood, using live-updated reaction upvotes
- Built modular front-end "mood" React components inspired by Facebook reaction buttons to DRY up code and allow for future additions of new reaction categories, enabling users to label playlists with one or more moods
- Implemented follow playlist button using Express.js router to add/delete items in Follows collection (MongoDB), built CRUD model and used RESTful APIs, enabling construction of profile page to display users' followed playlists
- Took initiative as team lead by organizing and leading daily stand-up meetings, and making executive design decisions on backend schema, frontend state shape, frontend/backend routes, prioritization of MVPs

EXPERIENCE

Hacker in Residence
App Academy   Feb 2020 - Present
- Conducted technical and behavioral interviews, evaluating applicants' algorithmic proficiency in JavaScript, Python, and Ruby, in addition to their cultural fit and alignment with App Academy values

Mechanical Solutions Engineer
Ball Aerospace   May 2018 - Aug 2018
- Harnessed SolidWorks to design and outfit mobile command center for hexapod robot program demonstration
- Communicated with stake-holders to select and order custom components within $15,000 budget, organized tools in shadowboxes to maintain payloads
- Worked after-hours on project team to design, build, test, and launch payload 100,000 ft. into space via high-altitude balloon, successfully designed and 3D-printed stamping mechanism, constructed and tested payload

Engineering Student Aide
U.C. Berkeley Space Sciences Laboratory   Jun 2017 - Sept 2017
- Modeled ground support equipment testing rigs, lifting fixtures for Zerodur optical bench, and mounts using SolidWorks, performed FEA and created drawings, for Keck telescope spectrometer exoplanet detector
- Built prototypes and testing hardware, including operating temperature monitors with Visual Basic

Engineering Intern
Boeing Company   Jun 2014 - Aug 2014
- Built spherical pressure vessel by TIG-welding 2 Inconel alloy 718 hemispheres, attached strain gauges to measure stress, performed hydrostatic burst test, analyzed stress and fracture pattern, presented project to Boeing staff

EDUCATION

U.C. Berkeley - B.S. Engineering Physics, 2015-2019
App Academy - Full-stack web development bootcamp with <3% acceptance rate, 2019-2020