Fue Robert Her | Software Engineer

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SKILLS JavaScript (ES6), React, Redux, Ruby, Ruby on Rails, Python, HTML5, CSS3, PostgreSQL, MongoDB, Mongoose, Express, SQL, Node.js, Canvas, Git, GitHub, Amazon Web Services (AWS), Heroku, Webpack, Websockets

PROJECTS

Nspect | (Ruby, Rails, PostgreSQL, AWS, JBuilder, JavaScript, React/Redux, Google Maps API)   Live Site | GitHub
Nature enthusiasts social networking and knowledge crowdsourcing app. Single page upgrade of iNaturalist.org
- Integrated AWS S3 with Rails ActiveStorage to centralize image hosting to reduce server stress.
- Applied S3 image associations to both user and Observation classes to allow adding observation evidence and profile customization.
- Developed reusable React components to display all associated activities of each observation. The different activities are merged and sorted chronologically before rendering to maintain a timeline.
- Employed Google Maps API to render maps to select and display only observation markers matching users' search string. Maps are also used to add/update geo-location for observations.

Jumpy Kart | (MongoDb, Express, Axios, Node, JavaScript, Websockets, Canvas)   Live Site | GitHub
Retro, multiplayer mashup of Flappy Bird and Mario Kart
- Lead a team by instantiating workflow and version control with github to resolve and prevent merge conflicts.
- Emitted game state using Socket.IO while listening on the client-side to create a multiplayer platform game which connects users across multiple distinct game rooms.
- Utilized HTML Canvas and custom front-end logic to provide players with personalized viewports central to their character and to render each player's character on top leaving the opponents sprites drawn underneath.
- Coded user auth and Axios API to update MongoDB. Scores (coins gained) updated every race and users can see the leaderboard across the platform at the end of each race.

TabbyNotes | (JavaScript, React, Webpack)   Chrome Web Store | GitHub
Chrome extension for quick note-taking
- Implemented save with browser localStorage reducing security risk and enabling offline use.
- Implemented autosave on any changes made and ensure the app will open to the last active tab on reopen.
- Managed state with react hooks to reduce app size and dependencies.

EXPERIENCE

Inventory Specialist

Scholl's Valley Native Nursery, LLC   Sept 2018 – June 2019
- Facilitate sales and deliveries to contracts that account for over 70% of company profits.
- Streamlined warehouse operations, and performed quality control reduced sales errors by 94%.

Biological Science Technician (Aquatic Vegetation and Wildlife)

Presidio Trust   Nov 2017 – Sept 2018
- Developed a new volunteer program generating 15+ new volunteers and 400+ volunteer hours per year.
- Lead monthly youth education programs in partnership with the SF Zoo reaching 20+ youths per month.
- Engage with the public during events and through social media sharing videos and photos.

EDUCATION

App Academy - Highly selective, rigorous 1,000-hour coding bootcamp for software engineering, 2019
University of California, Merced - *B.S. Biology - Ecology and Evolution, 2009 -* 2013