OWEN HAUPT

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SKILLS
Ruby, Rails 5, JavaScript, jQuery, React, Redux, Node.js, MERN, PostgreSQL, Git, HTML5, CSS3

PROJECTS

Candidpop | *(Ruby on Rails, PostgreSQL, JavaScript, React / Redux, HTML5, CSS3)*   Live | GitHub
Upgraded clone of reselling app Depop

- Created dynamic photo thumbnails in custom HTML forms so users can personalize their profile and store, by handling both image files and local image URLs sourced from user-uploaded images.
- Integrated **AWS S3** with **Rails ActiveStorage** to centralize image hosting to reduce server stress. Applied S3 image associations to both user and item classes to allow shop personalization and customized profiles.
- Implemented backend-search using the query string, a custom Rails route, and custom controller action to search a database of items by description.

Jumpy Kart | *(MongoDB, Express, React / Redux, Node.js, WebSockets, HTML5, CSS3)*   Live | GitHub
Retro, multiplayer mashup of Flappy Bird and Mario Kart

- Emitted game state using **Socket.IO** while listening on client-side to create a multiplayer platform game which connects users across multiple distinct game rooms.
- Wrote custom frontend drawing logic for **HTML Canvas** to always render the current player's character sprite on top, leaving the opponent sprites drawn underneath.
- Utilized **MongoDB** and **Express** routes to keep track of high scores (coin count). Scores update every race and users can view the leaders across the platform after each race.

VaxiGraph | *(JavaScript, D3, HTML5, CSS3)*   Live | GitHub
Interactive graph demonstrating vaccine efficacy

- Combined two distinct CSVs from World Health Organization into one **JavaScript** object using **D3**'s .csv function in order to show the relationship between vaccination rates and disease incidence over time.
- Designed user interface where **HTML** select elements dictate which data are drawn on graph via onchange event.
- Implemented mouse-over hovering effect which displays a slidable read-out of data from both data sets connected visually by a sliding line to demonstrate interpolated data for a given point in time.

EXPERIENCE

In-Store Trainer / Manager
Equator Coffees   Aug 2018 - Jul 2019
- Spearheaded in-store training program at Market St. location, with weekly sales topping at $15,000.
- Managed training and continued education of ten-person staff via store operations and preparation techniques.

Research Assistant
University of Illinois at Urbana-Champaign   Jan 2017 - Oct 2017
- Produced data, visuals, and journal reviews for inclusion in scientific publication with over 1.3 million journal downloads in last five years.
- Worked to create models of human pregnancy via study of gene evolution in Lemur.
- Developed protocol for hormone extraction to track gestational protein levels in Lemur.
- Trained and managed undergraduates to increase lab productivity by over 250%.

EDUCATION
University of Illinois at Urbana-Champaign - *B.S. Molecular & Cellular Biology, 2013-2017*
App Academy - *Highly selective, rigorous 1,000-hour coding bootcamp, 2019*