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SKILLS

JavaScript ♦ React ♦ Redux ♦ Ruby ♦ Ruby on Rails ♦ PHP ♦ SQL ♦ MySQL ♦ PostgreSQL ♦ MongoDB ♦ Git
Node ♦ Express ♦ Webpack ♦ Vue.js ♦ HTML5 ♦ CSS3 ♦ D3.js ♦ GraphQL ♦ WebSockets ♦ Socket.io ♦ AWS

PROJECTS

KidsCart (ReactJS, Express) <https://kidscartlive.herokuapp.com> | github.com/ladydragonforever/KidsCart

An Express backend and React + Redux frontend built this food ordering app for your kids

- ♦ Designed non-relational database schemas for MongoDB to improve reads based on metadata about meal ingredients
- ♦ Instrumented meal selector using images layered on top of custom SVG graphic to visually display ingredients
- ♦ Implemented responsive search results page by utilizing CSS transitions and media queries to enhance user experience

Fun Chat (Socket.io, ReactJS) <https://fun-chats.herokuapp.com> | github.com/shmily40686/FunChat

Chat application focusing on cross-language communication that translates messages you send automatically

- ♦ Utilized socket.io library to emit events from an express backend and listened on the frontend using the .on method
- ♦ Used Validator to ensure normalization of models with metadata to specify language preferences
- ♦ Incorporated translation API to automatically translate messages received to current native language

Frog Jumper (JavaScript, HTML5) <https://shmily40686.github.io/frog-jumper> | github.com/shmily40686/frog-jumper

Runner game where a frog jumps over obstacles and collects tokens to increase score.

- ♦ Created infinitely scrolling game by repeatedly calling HTML5 Canvas draw method using requestAnimationFrame
- ♦ Designed algorithm using coordinates and the distance formula to detect collisions between player and obstacles
- ♦ Implemented 3D illusion layering multiple canvas elements for background, objects, and foreground
- ♦ Utilized webpack and OOP to design classes and separate components into logical concerns

YOUdemy (Rails, ReactJS) <https://udemy-clone-project.herokuapp.com> | github.com/shmily40686/udemy-clone

Rails and React complement each other in this app that replicates key features of Udemy

- ♦ Utilized object IDs as keys in global redux store to provide constant time lookup of items within application state
- ♦ Incorporated BCrypt with RoR backend to salt and hash passwords to prevent rainbow table attacks
- ♦ Implemented original custom CSS animations for sliding window carousel to enhance UX across application
- ♦ Optimized API queries to improve speed of search functionality by filtering content metadata by category and title

Tech-D3 (JavaScript, D3.js) <https://github.com/shmily40686/d3-tech-companies> | shmily40686.github.io/d3-tech-companies

D3 powers these data visualizations to captivate the eye while describing a story of information

- ♦ Reused canvases between multiple visualizations to improve interactive aspect of gallery
- ♦ Created with vanilla JavaScript and HTML5 without needing to leverage frontend frameworks to control views

EDUCATION

Web Development - App Academy | Spring 2020

Film Production & Editing - Academy of Art University | 2013 - 2016

Film Production & Directing - Beijing Film Academy | 2009 - 2013