Helen Cheung

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SKILLS

React, Redux, JavaScript, jQuery, Node.js MongoDB, Express, SQL, PostgreSQL, Ruby on Rails, HTML5, CSS

PROJECTS

OpenDumpster | *(React/Redux, Rails 5, PostgreSQL, JavaScript, jQuery, CSS)*   **live** | **github**

- Engineered a custom search feature in Rails backend that allows users to search for keywords across multiple fields in different tables, filters for available time slots, and returns the restaurants to front-end, minimizing load-time and preventing overbooking
- Implemented an operational hours joins table using PostgreSQL and ActiveRecord ORM that allows restaurant owners to customize their hours and capacity
- Harnessed Redux normalized-state management to streamline communication between backend and frontend architecture, using conditional states to allow users to post reviews and rate restaurants with a valid reservation
- Designed responsive CSS Components that resize according to the browser window and enhance user experience

Rabbit Derby | *(React/Redux, MongoDB, Express, Node.js)*   **live** | **github**

- Utilized Mongoose ORM to map results of database queries onto JavaScript objects to be manipulated and returned to frontend, separating concerns and following MVC best practices
- Built a custom physics engine using Object Oriented Programming and conditional logic in JavaScript to manage movement mechanics and check if a player collides with obstacles
- Implemented logic to dynamically render randomized maps in the JavaScript Game class to keep the game fresh and challenging; utilized a Queue stack structure to limit the amount of maps loaded at once to reduce fps drop
- Refactored the game component to allow for user to design their own playable maps, which overwrite the dynamically randomized component of the game

Data Visualization | *(JavaScript, D3.js, HTML5, CSS)*   **live** | **github**

- Created a choropleth map of the United States with D3.js library to visualize crime rate statistics published by the Uniform Crime Reporting Statistics (UCR). Map will change according to the type of crime &/or year selected.

EXPERIENCE

SVP Corporate Strategy

Picowork (HK) Limited, Hong Kong   2016 - 2018

- Realigned corporate strategy by identifying the competitive strength of the new innovative tech and working with the products team to revise existing design. Actively participated in the product development pipeline to ensure alignment with the strategic direction of the firm.
- Re-positioned company by establishing Mission and Value statements, target audience, and marketing channels after assessing the previous business model. The revised business model, coupled with product and strategy realignment, has led to an immediate spike in investor and client interest.

Credit Analyst

Macquarie Group, Hong Kong   2014 - 2016

- Designed Excel models used to assess the credit quality of counterparties compared to industry peers, collaborated with front office in structuring trades to ensure credit risk remains within bank's risk tolerance, and provided recommendations to senior management and business for credit-related concerns.
- Reviewed existing credit software, identified deficiencies and actively participated in the improvement of credit tools to ensure risks are accurately captured, reported and mitigated.

EDUCATION

University of Toronto - *Master of Financial Economics*   2012 - 2014
University of Toronto - *Bachelor of Commerce*   2007 - 2012
AppAcademy - top 10 best coding bootcamps with less than 5% acceptance rate   2019 - 2020