Percy Dai

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EDUCATION

App Academy
Computer Software Engineering   November 2019
University of California, San Diego
Bachelor of Science in Mathematics/Computer Science Major   March 2018

- Database System Principles, Data Structures, Algorithm Design and Analysis, Data Analysis and Inference, Data Science in Practice, Software Engineering, Theory of Computation

RELEVANT WORK EXPERIENCE

Alert Enterprise   Fremont, CA
Professional Services Engineer   November 18, 2019 – January 31, 2020

- Installed enterprise application on local server using Tomcat, ActiveMQ clustering, and Oracle DB.
- Configured HR application solutions for new-hire on-boarding process, badging information, and user access.
- On-boarded new users using SimpleHR and system connectors for the Alert Enterprise application.

Corelation   San Diego, CA
Software Developer   October 3, 2016 – October 13, 2017

- Created Java batch scripts to automate account transactions handling.
- Coordinated with technical team and business analysts to meet client requirements by updating current project progression through daily standup.
- Utilized client documentation and collaboration to perform backups on databases and data migration.
- Created software tools in Java to help parse through xml, txt, xls, and unstructured data formats for data extraction.
- Developed reports using data extracted from remote server database per client requests.
- Modified existing database software into faster, more efficient SQL code.

Enablence   Fremont, CA
Data Analyst   Jul 10, 2014 – Oct 15, 2014

- Tracked transactions between company and its vendors using QuickBooks and Excel.
- Reconciled inventory transactions by comparing and validating data.

PROJECT EXPERIENCE (May 2019 – November 2019)

Meteor
React, Redux, Ruby on Rails, PostgreSQL   live site | github

- Setup PostgreSQL database schema using migration files and created the ActiveRecord associations and validations.
- Created controllers and associated routes to access JBuilder JSON files. Setup URL params to interact with controllers for front-end AJAX HTTP requests.
- Implemented user authentication using BCrypt for saved passwords and SecureRandom for randomized session tokens. Included bootstrap functionality to keep users logged in with session cookies after navigating to other pages on the site.
- Enabled users to create, update, and delete stories from their profile. Users can upload images using ActiveStorage.
- Used Redux to have a store managing global state for components and both logger and thunk middleware for easy debugging and handling of asynchronous functions.
- Integrated a search feature to quickly access stories based on keywords using frontend history to track search input.

BeastMode
MongoDB, Express, React, Node   live site | github

- Designed a workout algorithm which includes detailed exercise instructions, number of sets to perform, and repetitions, reducing the workout intensity with the user's level of fatigue.
- Stored user workout plans using MongoDB so users can view previous workouts for future reference.
- Setup an AWS S3 environment to upload workout images to the cloud, reducing server load and enabling the application to scale with users.

3072
JavaScript   live site | github

- Created a game with directional controls to shift tiles on a board with the directional keys to create the 3072 tile.
- Implemented OOP design patterns to organize game logic, board display, and scoring to easily test, manage, and debug code.
- Used CSS to style board, tile coloring, and render proper tile positioning with each user input.

TECHNICAL SKILLS AND OTHER INFORMATION

Languages: JavaScript, SQL, Python, Java, Python, C++, R, MatLab

Web Technologies: HTML5, CSS3, React, Redux, Express, Node

Tools/IDE: GitHub, Visual Studios Code, Tableau, Jupyter, AWS, Balsamiq, Hadoop

Databases: PostgreSQL, MySQL, MongoDB, Oracle, Microsoft SQL Server