Zhiyuan (Sean) Fan

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RELEVANT EXPERIENCE

Dream Planner | Team Project   Oct. 2022
Full Stack Developer | Live | GitHub

- Collaborated with 3 programmers and developed a full-stack financial planning app for users to budget for their vacations and track expenses.
- Built responsive frontend websites using React and Tailwind and enabled CRUD operations with the backend via Axios and React Router
- Constructed a backend server with Django, PostgresSQL, and Python to smoothly interact with frontend requests.

Petspace | Team Project   Oct. 2022
Full Stack Developer and Git Manager | Live | GitHub

- Produced a full-stack social media platform for pet owners to share/like pet photos and comment on them.
- Designed polished frontend websites using React and Bootstrap and equipped them with authentication via JWT and hashing.
- Formed REST APIs by using Express, MongoDB, and Mongoose to dynamically respond to frontend Axios requests.

Movie Tracker | Solo Project   Sep. 2022
Full Stack Developer | Live | GitHub

- Created a full-stack movie app that allows users to search movie info, track watched movies, add movies to watchlists, and add movie reviews.
- Generated authentication and authorization for user sign-in and user data security via encryption and hashing.
- Established CRUD operations for users and their comments via Express, Sequelize, and PostgresSQL.

Treasure Hunt | Solo Project   Aug. 2022
Developer | Live | GitHub

- Used HTML5, CSS, and JavaScript to design and develop a treasure hunt game with a dynamic interface that can track each player's steps, turns, and scores by DOM manipulation and OOP.
- Designed a computer player with different levels of intelligence by using scan functions to locate the correct positions and random functions to determine the possibilities to score points

WORK EXPERIENCE

Genentech   South San Francisco, CA
Biomedical Scientist   2021-2022

- Reduced research data transfer time by more than 90% via writing python pandas scripts to extract vaccine biodistribution data from PDF files as CSV files.
- Finished a cancer vaccine biodistribution project that was delayed for 2 years due to formulation instability by investigating the mechanism and implementing a purification strategy.

TECHNICAL SKILLS

JavaScript | Java | Python | HTML5 | CSS | SQL | MySQL | Postgres | MongoDB | Sequelize | Mongoose | Django | Node | Express | EJS | Axios | React | Git | GitHub | Data Structures and Algorithms

EDUCATION

General Assembly   Online
Software Engineering Immersive   2022
Drexel University   Philadelphia, PA
Ph.D. Materials Science and Engineering   2012-2018
Beihang University   Beijing, China
B.S. Materials Science and Engineering   2005-2009