

JUSTIN HSIE

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EDUCATION

COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH, New York, NY

Master of Science (MS), Biostatistics

May 2020

UNIVERSITY OF WASHINGTON, Seattle, WA

Bachelor of Science (BS), Biology

June 2017

PROJECTS

Movie List: Full-stack CRUD app from scratch | React, FastAPI, PostgreSQL, Docker, Heroku June 2022

- Built an app to save and sort your favorite movies with your personal rating
- Integrated third-party API calls to The Movie Database API to retrieve movie posters and titles
- Constructed RESTful backend routes in FastAPI with robust user authentication and password hashing
- Connected to PostgreSQL database with SQLAlchemy orm to persist user and movie data
- Configured and deployed to Heroku in Docker container

Eats Nearby: Full-stack CRUD app from scratch | React, Redux, NodeJS, Express, PostgreSQL Mar 2021

- Designed an app that saves your favorite places and retrieves them in order of proximity to your current location
- Managed global state and async data fetching with Redux, implementing third-party API calls to Google Maps Autocomplete, Places, & Distance Matrix APIs
- Created RESTful backend routes in Express with efficient SQL queries to persist user data in a PostgreSQL database

The Mind: Original app adaptation of multiplayer card game | React, NodeJS, Express, Socket.io Mar 2021

- Adapted a multiplayer card game into an app, utilizing Socket.io to re-render the app in real-time for all clients playing the game through bidirectional and event-based communication
- Employed object-oriented design to construct game logic and turn-based gameplay

SKILLS

Proficient - Javascript, React, HTML+CSS, FastAPI, Git/GitHub, PostgreSQL, Java, OOP

Knowledgeable - Python, Heroku, Express, NodeJS, Redux, MongoDB

Basic - Docker, Command Line

CS courses - Berkeley CS 61B: Data Structures & Algorithms, Harvard CS50: Intro to Computer Science,

Udemy: Web Dev Bootcamp, React with Redux

WORK EXPERIENCE

PPD, Wilmington, NC

June 2021 – present

Associate Biostatistician (Remote)

- Program statistical outputs and tables, provide proper documentation
- Refactor legacy statistical code to improve cleanliness, readability, and reusability
- Develop table and listing specification algorithms utilizing SDTM guidelines

OTHER ACTIVITIES

- Music: Wrote & produced original songs and covers published on SoundCloud