

JAMES Z. HONG

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EXPERIENCE

Software Engineer

Ethos, Mar 2022 - Feb 2023

- Developed in Go (Programming Language), React, and Svelte on the Partnerships team for the Agent Portal
- Implemented new features to improve agent retention, productivity, and operational excellence
- Projects include self-serve onboarding, agent portal home page, customer tasks, and customer list view

Project Manager

Power Environmental & Energy Research Institute, Sep 2016 - Aug 2021

- Managed R&D projects to develop novel solutions for high-saline wastewater treatment
- Led projects to commercialize newly-developed chemicals for drilling fluids and cementing

Laboratory Analyst

Los Angeles County Sanitation Districts, Sep 2013 - Aug 2016

- Managed interdepartmental research projects for water reclamation plants
- Developed standard operating procedures for wastewater sample collection and automated sampler setup and maintenance to improve auto-sampling reliability in the laboratory section

EDUCATION

App Academy - Immersive software development course with a focus on full-stack web development (Winter 2021)

Johns Hopkins University - MS - *Environmental Engineering* (Spring 2013)

Fudan University - BS - *Environmental Science* (Spring 2011)

SKILLS

Go (Programming Language), JavaScript, TypeScript, React, Svelte, Ruby on Rails, HTML, CSS, Git, PostgreSQL, Rspec, Heroku, MongoDB

PROJECTS

TableLog | (*React / Redux, Rails 5, Ruby, Postgresql*)

[Github](#)

An OpenTable-inspired single-page web app where users can CRUD restaurant reservations and reviews

- Applied Ruby on Rails utilizing Users, Restaurants, Reservations, and other ActiveRecord models and controllers to properly store info and query database to pass relevant data to the frontend
- Managed a booking CRUD through custom transactional database operations using Active Record and PostgreSQL
- Connected the Rails backend to AWS S3 for media storage and organization
- Implemented custom search and search auto-suggestion feature that properly filters cuisine category and cities as users type; passing data to the backend to pull specific restaurant info, and actions are dispatched to update state

SwipeX | (*MongoDB, Express, React / Redux, Node.js*)

[Github](#)

An exchange platform where students can trade meal swipes to maximize meal plan values and reduce the financial burden

- Successfully created and utilized a NoSQL database with MongoDB for all relevant information.
- Performed queries using mongoose (ODM/ ORM) to represent the data as objects and query by function chaining.
- Designed and Built a frontend conversation page with interacting functionalities for users to make offers and confirm exchanges of meal swipes and leave comments for the other user.

Wizard of Odds | (*Javascript, HTML, CSS*)

[Live Site](#) | [Github](#)

A web application for users to simulate a poker hand and see the probabilities of every possible outcome.

- Built an algorithm from scratch for calculating poker hand outcomes and included opponent hand ranges as a variable
- Implemented dynamic styling for users to better interact with the application