DANNY CHEN   SOFTWARE ENGINEER

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SKILLS: JavaScript, PostgreSQL, Express.js, React / Redux, Node.js, Sequelize, Python, Flask-SQLAlchemy, Pug, CSS

EDUCATION:

App Academy - *Full Stack Software Engineering*   2021
- *Fast-paced **1000+** hour software development program with **<3%** acceptance rate with focus on pair programming, and developing full-stack web development projects both solo and in groups*
- *Coursework: Data Structures, Algorithms, OOP, Test-Driven Development , Browser, Networks, Coding Best Practices*

University of California, Berkeley - *BS Chemical Engineering*   2002-2006

TECHNICAL EXPERIENCE & PROJECTS:

CHOCOLATE BOX GAME   *PostgreSQL, Flask-SQLAlchemy, React / Redux, Python, JavaScript*   live | github
A single-player puzzle game that features playback history of previous play sessions of all players
- Condensed multiple database entries in **PostgreSQL** for multiple Moves in one Game, to one database entry representing all Moves in one Game, providing **scalability** for future growth.
- Prioritized customer needs (based on feedback) by revamping **UI/UX** to direct players on the selected tile and available moves, to allow new players to grasp the rules by actions, instead of reading alone.
- Implemented **Redux store** to manage a global state, allowing for editing and displaying correct 'Favorites' status consistently across multiple, unrelated **React** components.

ARTIFACTS   *PostgreSQL, Flask-SQLAlchemy, React / Redux, Python, JavaScript*   live | github
An Etsy clone, an e-commerce site themed around selling items procured by time travelers.
- Led discussions with a team of **4** developers to align and agree upon the proper **user stories** for the intended functionality, design, and data storage of the shopping cart feature.
- Developed shopping cart **logic**, using back-end checks to ensure the cart items are in inventory, and front-end interface to inform the user on how to correct any discrepancies, in order to provide an intuitive user experience
- Implemented search bar, utilizing the **SQLAlchemy ORM** to write custom queries to match the inputted search terms based on multiple table columns in the **PostgreSQL** database.

GATHERING POINT   *PostgreSQL, Express.js, Sequelize, React / Redux, Node.js, JavaScript*   live | github
An Eventbrite clone, a ticketing site specialized for tournaments for the game Magic: the Gathering
- Implemented a **single-page UI** to display events based on user preferences, implemented via dynamic **React** components supplied with data from custom queries in **Sequelize**.
- Designed custom modals for forms, via **React Portals**, to provide smooth transitions for using forms.
- Replicated **UI** of *Eventbrite* for front page and events, using **CSS** without external libraries, to provide an intuitive interface for new users.

ASK-MEEPLE   *PostgreSQL, Express.js, Pug (formerly Jade), Sequelize, JavaScript*   live | github
A Quora clone, a question-and-answer site specializing in board games.
- Utilized **DRY** principles for scalable code for rendering posts, by using **Express** to serve template files usable for multiple pages, and using template inheritance from **Pug** to reuse code blocks.
- Wrote **custom DOM event listeners** to handle **CRUD** features for comments, to provide a smooth single-page experience when editing on the main post page.
- Implemented manual cascade-delete in **Sequelize**, ensuring orphaned comments are removed from the database when deleting posts, to minimize the number of **PostgreSQL** database entries.

ADDITIONAL EXPERIENCE:

Process Engineer (*Sulzer GTC Tech, Raschig USA, Honeywell UOP***)**   Sept 2006 - Jan 2021
- Produced technical proposals to clients independently, detailing technical solutions using proprietary equipment for chemical and petrochemical plants.
- Refined **Excel** spreadsheets using macros, saving hours of data entry and error checking for each proposal.
- **Standardized** technical proposal template, reducing errors from boilerplate technical and legal language.
- Collaborated across various, diverse teams (drafters, mechanical engineers) and external project managers to finalize fabrication drawings for refinery equipment.