Nick Menon

(408) 429-0938   nikhilmenon@comcast.net   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS   JavaScript, React, Redux, HTML5, CSS3, Python, Flask-SQLAlchemy, Express, Node, PostgreSQL, Docker, Heroku, Git

PROJECTS

Learn2Cook   (Python, ReactJS, Redux, Flask-SQLAlchemy, Docker, Heroku)   live | github

Cooking site that enables users to search and find beginner cooking recipes

- Implemented recipe searches, reviews, and favorite functionalities by leveraging RESTful APIs and standardized CRUD patterns
- Implemented python scripts to retrieve data from API's to make seeder data.
- Ensured user privacy and autonomy through frontend and backend authentication measures and React Router, allowing users to only access and make changes to their favorites when logged in.

AptBnb   (ExpressJS, ReactJS, ReduxJS, NodeJS, Heroku)   live | github

Travel site that incorporates Google Maps to see apartment listings

- Integrated Google Maps API to dynamically present business locations through markers based on model parameters.
- Configured the Node backend with PostgreSQL, using the Sequelize ORM for validations and database queries.
- Adhered to React and ES6 best practices to generate a true single page reactive web app experience.

OpenBar   (Python, ReactJS, Redux, Flask-SQLAlchemy, Docker, Heroku)   live | github

Booking site that enables users to book tables at bars

- Implemented custom search using Redux, users would be able to select from a drop down list of values, or use a calendar to input dates for reservations.
- Incorporated React-Redux container and Redux selector patterns to architect highly scalable and uni-directional front-end state management
- Created custom SQL queries and reduced server load through the utilization of associations to extract data from multiple tables in a single query.
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EXPERIENCE

Senior Mechanical Design Engineer

Klear Bit Technologies   Sept 2019 - April 2020

- Implemented new design process for steel products, resulting in reduction of turn over time by 15% and saving the company $3,500.
- Programmed VBA Macros to streamline and automate the design process for SolidWorks.
- Coordinated with the sales and manufacturing team to reduce error count in designs by 10%, by creating design review documents.
- Contributed to 3 patent applications by helping design cost-efficient upgrades to products.

Mechanical Design Engineer

Ulterra Drilling Technologies   Feb 2018 - Sept 2019

- Designed and delivered 30 design projects, resulting in $2M in revenue.
- Ensured products created and the work environment were in conformance with API (American Petroleum Institute) standards and audits.
- Collaborated with the mergers and acquisition team with corporate and legal departments to evaluate potential companies for acquisition due to prior expertise with intellectual property, which prevented the company from acquiring a company with less powerful patents.

Patent Examiner (Mechanical Engineer)

United States Patent and Trademark Office   Jan 2017 - Feb 2018

- Reviewing patent applications to determine if they comply with basic format, rules and legal requirements
- Conducted SQL queries to search through EAST Software relevant technologies to compare similar prior inventions.
- Strategized and implemented an efficient review process leading to a 30% decrease in pending patent applications.

EDUCATION

Web Development - *App Academy | Fall 2020 - Spring 2021*
BS Petroleum Engineering - *Texas Tech University | Fall 2011- Spring 2016*