

Pawan Chahal

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San Jose, CA

[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

Skills

React.js, Redux, JavaScript, Node, Express, Python, Flask, C++, SQL, postgresSQL, Sequelize, SQLAlchemy, HTML5, CSS3, AWS, Git, Docker, Mocha, TDD, OOP, ControllLogix, RSLogix, AutoCAD, Xilinx ISE, Matlab

Technical Projects

gameStop - (JavaScript, React / Redux, postgresSQL, Express, Sequelize, CSS3, AWS, Heroku) [live site](#) | [github](#)

- Configured the **Node** backend with **PostgreSQL**, using the **Sequelize** ORM for validations and database queries
- Utilized **Redux** architecture's unidirectional data flow with **React** for predictable state and reliable DOM rendering
- Employed **CSS3 flexbox** with z-index and **React-Modal** for a compelling and flexible layout
- Connected the **Express** backend to **AWS S3** for media storage and organization while maintaining content security with **AWS IAM**
- Built a secure user authentication system, utilizing **Bcrypt** to hash and salt passwords, strengthening protection of user data.

Kilogram - *Group Project* (Python, JavaScript, React / Redux, Flask, SQLAlchemy, CSS3, AWS, Docker) [live site](#) | [github](#)

- Spearheaded management of the GitHub repository and issue workflow with automated Kanban board task creation to streamline the process of multiple developers working on various website features in tandem during a **1-week sprint**
- Incorporated **AWS API** for user image upload on Posts to reduce load on the backend database and increase scalability of the application
- Designed social media follower and following functionality using a PostgreSQL many-to-many self-referential table relationship between the Users database table and itself, allowing accessibility to lists of other followed/following users in each user object

airBnb - (JavaScript, React / Redux, postgresSQL, Express, Sequelize, CSS3, MapBox API, Heroku) [live site](#) | [github](#)

- Managed the booking CRUD through customizing transactional database operations using PostgreSQL and reducing server load through the utilization of eager loading to extract data from multiple tables in a single query
- Integrated **MapBox API** with custom search functionality to dynamically present booking locations based on user parameters.

Education

App Academy - *Full Stack Software Development*

Graduated Dec 2021

San Jose State University - *Bachelor of Science in Electrical Engineering*

Graduated Spring 2011

Work Experience

Owner/Operator | Chevron

May 2014 - June 2021

- Managed the day-to-day operations of a large volume c-store / gas station (\$10 MM in revenue) and increased sales by developing a strong knowledge of c-store products and services
- Maintained effective liaison with vendors and suppliers to ensure timely and accurate delivery of gas supply and c-store merchandise

Instrumentation & Controls Design Engineer | Atlas Copco

September 2012 - April 2014

- Worked closely with engineering and production to establish optimized performance of all equipment and accurate design
- Provide recommended scope of work for projects and assisted in implementing approved system changes
- Managed the installation and configuration of Allen Bradley PLCs and HMI hardware / software and debugged their associated fault diagnostics
- Created electrical schematics using AutoCAD Electrical software