Pawan Chahal

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Skills

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

Projects

gameStop (JavaScript, React / Redux, postgreSQL, 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
- Connected the Express backend to AWS S3 for media storage and organization while maintaining content security with AWS IAM

Kilogram (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

Experience

Operator / Owner | January 2015 - July 2021
Chevron
- 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
- Interviewed, hired, trained employees on duties, company's policies and customer service

Controls Engineer | June 2014 - November 2014
Tesla (under Inovision)
- Programmed PLCs and HMI software and debugged their associated fault diagnostics
- Wrote and debugged ladder logic in a maintainable and reusable manner to interact with subsystems such as conveyors, robots and manufacturing execution systems

Automation Engineer | November 2013 - May 2014
Matrix Technologies
- Developed and assisted with the execution of Operational Qualification testing for the Air Handler Units, Autoclaves, Vial Fillers, Washers and Cappers
- Provided extensive field support to simulate I/O and troubleshoot communication issues
- Executed Installation Qualification for the control panel layout and wiring

Instrumentation & Controls Design Engineer | September 2012 - October 2013
Atlas Copco
- Worked closely with production, maintenance and engineering to establish optimized performance of all equipment and accurate design
- Meet with customers and company sales personnel and representatives both in-house and on site to assess unique applications requiring special design consideration
- Managed the installation and configuration of Allen Bradley PLCs and HMI hardware
- Created electrical schematics using AutoCAD Electrical software

Education

App Academy | Winter 2021 | San Francisco, CA
Immersive software development course with focus on full stack web development

San Jose State University | Spring 2021 | San Jose, CA
Charles W. Davidson College of Engineering, B.S. in Electrical Engineering