

SUMMARY

Full-stack software engineer adept at utilizing JavaScript for front-end and back-end programming. Proficient in React, HTML, CSS, API implementation, Node.js, Express, PostgreSQL, and frameworks like Bootstrap. Experience in refinery controls engineering provides an advantage in finding solutions to problems related to software and real-life applications.

TECHNICAL SKILLS

- **Frontend:** HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS, SASS, Bootstrap, jQuery
- **Backend:** Node.js, Express, RESTful APIs, PostgreSQL
- **Tools:** Mocha, Chai, Knex, Git, GitHub, Heroku, Node Package Manager, Visual Studio Code, Postman, Repl.it, Render, Vercel

SOFTWARE ENGINEERING PROJECTS

Restaurant Reservation Application | [Link](#)

- Developed a full-stack reservation table management system utilizing React Router and Express to build a RESTful API for seamless HTTP requests to a PostgreSQL database
- Implemented CRUD functions and utilized Knex queries to efficiently handle data interactions with the database
- Leveraged Git for version control, ensuring secure management of changes and preventing sensitive information from being pushed to repositories

Movie Database Application | [Link](#)

- Created a simple movie database utilizing React Router and Express to build a RESTful API for seamless HTTP requests to a PostgreSQL database.
- Implemented type-safe SQL query builder with Knex to efficiently handle database interactions
- Utilized Tailwind CSS to employ a modern and responsive design

Personal Portfolio | [Link](#)

- Built a frontend personal portfolio utilizing Next.js 15 with TypeScript utilizing static site generation and server-side rendering.
- Leveraged Tailwind CSS and Framer Motion for a responsive and animated interface with support for system theming
- Deployed and integrated Vercel analytics to view traffic and performance metrics to the site

PROFESSIONAL EXPERIENCE

Control Systems Engineering Intern

05/2021 - 08/2021

Valero St. Charles Refinery

Norco, LA

- Identified and mitigated 1,300 critical alarm rationalization issues in 75,000 DCS function blocks, preventing unintended activation of discrete logic systems.
- Developed and implemented DCS graphics updates, including pH linearization and speed control for a renewable diesel facility, optimizing process control.
- Automated refinery-wide alarm audits by creating VBA code to standardize tag name formatting, improving efficiency and consistency in data management.

Process Engineering Intern

06/2020 - 08/2020

Valero Meraux Refinery

Meraux, LA

- Led a multi-phase project improving caustic control in the wastewater treatment plant, coordinating with multiple departments, and managing change requests (MOCs, RAC, EWR).

- Developed real-time monitoring systems by integrating PI ProcessBook tags with Excel, improving control and safety measures for fired heaters.
- Automated chemical usage tracking through a detailed spreadsheet, optimizing dosage, cost analysis, and reporting for refinery-wide chemical management.

EDUCATION

Certificate, Software Engineering

10/2023 - 10/2024

Chegg Skills

Online

- Acquired comprehensive knowledge of industry best practices and software development standards, focusing on JavaScript, HTML5, CSS3, React Native, Node.js, PostgreSQL, RESTful APIs, algorithms, and data structures.
- Demonstrated growth by successfully developing and launching mobile-first applications, actively engaging with senior web developers in a mentor-student relationship to expand language proficiency and framework expertise.

Bachelor of Science, Chemical Engineering

12/2023

University of Louisiana at Lafayette

Lafayette, LA