

Zackery Lay

Software Engineer

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Projects

Project Title: Rick and Morty API

- Description: A web-based API that allows users to access information about the characters, episodes, and locations from the popular TV show Rick and Morty.
- Technologies Used: JavaScript, MongoDB, Mongoose, and Express.js
- Responsibilities: Implemented the backend logic using Node.js, Express.js and MongoDB
- Built and consumed RESTful endpoints for CRUD operations
- Utilized Mongoose as an ODM to interact with MongoDB
- Built the frontend using JavaScript and JQuery to interact with the endpoints
- Deployed the API using RailwayJS framework on railway

Project Title: Trivia App

- Description: A mobile and web-based trivia game that allows users to test their knowledge in various categories, deployed on railway.
- Technologies Used: HTML, CSS, JavaScript, jQuery, and RailwayJS
- Responsibilities: Developed the frontend using HTML, CSS, JavaScript, jQuery
- Built the game mechanics and implemented the logic for the game
- Optimized the app for mobile and web interface
- Implemented responsive design for optimal user experience
- Deployed the app using RailwayJS framework on railway

Project Title: League of Legends API Frontend

Professional Experience

IT Tech/Operations Manager

Select Energy | November 2019 - February 2021

Responsible for maintaining and troubleshooting the computer systems and networks that control various types of equipment used in oil and gas production. Including tasks such as installing, configuring, and upgrading software and hardware systems, troubleshooting and resolving technical issues, and insuring proper functioning of equipment. Monitored and analyzed data from equipment to identify potential problem and make recommendations for improvement. Worked closely with IT team to ensure equipment was operating efficiently and effectively.

Operations Manager

New Wave Energy | April 2015 - November 2019

Developing and implementing operational procedures and processes to increase efficiency and productivity. Identifying and trouble shooting operational issues and develop plans to resolve them. Building and leading a high-performing team, through effective communication, coaching and mentoring. Managing timelines, and resources to ensure projects are completed on schedule and within budget. Monitoring and analyzing data to identify trend, inefficiencies and opportunities for improvement

Crew Lead/AutoCad Engineer

Tennessee Land Surveying | April 2007 - July 2012

Worked in an AutoCad Based program to create accurate field plats. Managed and recorded accurate field notes. Worked with a crew of three to four people to properly record all field data.

Education Software Engineering

General Assembly at New York, NY

AutoCad Engineering

Nashville State at Nashville, TN

Key Skills

React, Python, Express.js, Node.js, mongoose, css3, bootstrap, Git, GitHub, OOP, Restful API's, jQuery, ES6, JavaScript, C#, Big O Notation, MongoDB, SQL, non relational databases, relational DB, Railway, Full stack development, HTML, CSS, JSON, Responsive Design, Django