

Zack Lay

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Education

General Assembly	Software Engineering Certificate	Expected February 2023
Nashville State Community College	AutoCAD Technical Certificate	2013

Languages and Technologies

- **Languages:** JavaScript, Java, C, C#, Python, HTML/CSS, SQL
- **Technologies:** React3, React, Django, Express.js, Node.js, Mongoose, Bootstrap, RESTful API, jQuery, ES6, MongoDB,
- **Tools:** Git/Github, Postman, Railway

Projects

- **Curbside Cloud App**
[CurbSideApp](#)
React app that lets the user post curbside items for free **JavaScript, MongoDB, Mongoose, and Express.js**
 - Implemented 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 React to interact with the endpoints
 - Deployed the API using RailwayJS framework on railway
- **Trivia App**
Trivia app having mobile and web interface built using **HTML, CSS, JavaScript, jQuery, and RailwayJS**
 - Developed the frontend using HTML, CSS, JavaScript, jQuery
 - Built the game mechanics and implemented the logic for the game
 - Deployed the app using RailwayJS framework on railway
- **League of Legend API (frontend only)**
A web-based frontend for a League of Legends API, built using **React JS** and deployed on **RailWay**
 - Consumed and displayed data from League of Legends API and implemented responsive design for optimal user experience
 - Deployed the app using RailwayJS framework and railway

Work Experience

- **IT Technician/Operations Manager** *Select Energy* 2019-2021
 - Responsible for maintaining and troubleshooting the computer systems and networks that controlled various types of equipment used in oil and gas production, which included installing, configuring, and upgrading software and hardware systems, troubleshooting and resolving technical issues, and ensuring proper functioning of equipment.
- **Operations Manager** *New Wave Energy* 2015-2019
 - Developed and implemented operational procedures and processes to increase efficiency and productivity in oil and gas production.
 - Monitored and analyzed data to identify trends, inefficiencies, and opportunities for improvement, including reduced workflow to a near paperless system using Microsoft Flow, allowing the CTO to add future workflows as needed.
- **AutoCad Engineer/Crew Lead** *TN Land Surveying* 2006-2012
 - Used AutoCad software to create and modify technical drawings and blueprints.
 - Interpreted design specifications and engineering data to create detailed and accurate drawings.
 - Collaborated with engineers, architects, and other professionals to ensure that drawings meet project requirements and standards.