

Zakary Smith

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EDUCATION

Western Governor's University
BS Software Engineering

2020 - 2024
Remote

WORK EXPERIENCE

ASRC Federal
Software Engineering

2023- 2024
Remote | Reston, VA

- Collaborated with an Agile R&D team to design and implement a high fidelity data simulator, enhancing the demo capability of an extensible data platform for potential contract bids.
- Engineered a comprehensive data replication system, mimicking real-world system feeds and intricate subsystem interactions, with a web dashboard for demo purposes, ensuring accurate representation for potential contract bids.

International Drilling Equipment
SAP Support, Marketing & Sales

2019- 2021
Winston Salem, NC

- Write custom Crystal Reports utilizing SQL to assist management teams with data needs
- Developed and maintained a task completion board for the parts department, making sure all customer requests were tracked and dealt with accordingly
- Supported customers' software needs for Leica products, a lidar solution for piling rigs

PROJECTS

Data Simulator/Analytics Dashboard @ ASRC FEDERAL – Python, Kafka, Javascript, React

A data simulator and accompanying dashboard mimicking real-world systems in the D&I sector.

- Building on top of a previously extensible data platform, my team gathered the requirements for a common system this platform would be used on and created a data simulator to allow for demo of the product without prior access to customer systems/data.
- Conceived and implemented intricate system and subsystem logic for accurate data generation. Architected a server for SSE generation reading from Kafka and spearheaded the creation of a real-time dashboard, ensuring contextual visualization of event data, including binary state and other key metrics.

<https://generate.gifts> – Next.js/React, Typescript, TailwindCSS, Supabase, Walmart Product API, OpenAI API
A gift idea/wish list application that generates gift ideas using GPT-3.5 and fetches product results for the user

- Takes user input and adds it to a pre-defined prompt sent to the OpenAI completions endpoint to generate gift ideas, which are then streamed to the user and utilized to search for products
- Uses various endpoints available via the Walmart affiliate API to find products relevant to the generated gift ideas, as well as fetch products for the Shop page
- Users can create an account for the ability to define multiple wish lists, to which items can be saved from both the Shop page and the generated items modal. Relevant user information(wish lists, saved gift data, etc.) are all stored in a Postgres instance

SKILLS

Languages: Java, JavaScript, Typescript, SQL, HTML5, CSS3

Frameworks/Libraries: React.js, Next.js, TailwindCSS

Version Control/CI/CD: Git, GitHub

Database: MySQL, PostgreSQL

Cloud/Deployment: Vercel, Supabase, Planetscale