Michael Kuhlmeier

Software Engineer

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Summary

Software Engineer with 8 years of experience as a chemical engineer. Experienced in data driven problem solving and troubleshooting from a leadership position in a wide variety of settings as a traveling technical service engineer across US and Canada. Managed projects as large as **$3MM** with **18 month** ROI timetables as a research and technology engineer.

Technical Skills

Languages/Frameworks: Ruby, Rails, ActiveRecord, SQL, OOP, CSS, HTML
Testing: Test Driven Development, RSpec, Webmock, VCR
Tools/Workflow: Git, GitHub, Postman, Heroku, Render

Projects

Weather Together (Group) | GitHub Repos | Deployment | **Tech:**Ruby | Rails | RSpec | Bootstrap

A weather game in which players pick locations where the weather will best match generated parameters
- Formulated concept and divided work into logical segments to facilitate independent work.
- Programmed all game logic and critical backend endpoints for game interaction

Futbol (group) | GitHub Repo | **Tech:** Ruby | Benchmark | RSpec

Program that takes large sets of unorganized data, and efficiently calculates various statistics
- Developed data pipeline that would reduce runtime from 12+ hrs to 45 secs and finally to <1 sec.
- Wrote code to generate representative fixture data for efficient and accurate testing

Professional Experience

Technical Service Engineer   Houston, TX

Haldor Topsoe, Inc.   2019 – 2023

- Traveled to customer sites to manage proper installation of Topsoe products during plant turnarounds. Directed start-ups of processes containing those products. This required direction of and communication with all levels of plant personnel and plant contractors.
- Conducted process diagnostic and performance testing on-site. Generated diagnostic and performance evaluation reports based on data collected.
- Performed calculations and generated technical quotations with optimal performance based on customer specifications.

Research and Technology Chemical Engineer   Pasadena, TX

Albemarle Corporation   2015 – 2019

- Developed and implemented process improvements that increased production rates, improved consistent quality, limited downtime due to maintenance, and decreased costs of operation for alumina process. This effort resulted in a record production month with a **15% increase** over previous record and improved quality with **no capital** spent. Awarded first author of Albemarle Technical Award for this effort.

Education

Accredited Certificate in Backend Engineering   08/2023-03/2024
Turing School of Software and Design

Bachelor of Science in Chemical Engineering   07/2011-05/2015
Louisiana Tech University