Erin Mei Matheny

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Overview

Currently, I am a geoscientist specializing in mineralogy and X-Ray Diffraction. I am a recent graduate from DigitalCrafts full stack development bootcamp. I have a passion for problem solving and enjoy working in teams. My technical background and leadership experience allow me to see problems for what they are and work well with others to develop solutions.

Software Development Skills

- JavaScript, React.js, Node.js, Express, RESTful API , PostgreSQL, Sequelize, Bootstrap, HTML, CSS

EDUCATION

DigitalCrafts
Certificate in Full Stack Development   Completed December 2020

The University of Houston
Bachelor of Science, Geology   Graduated, August 2017

Software Development Portfolio

Covid Case Tracker | covid-19casetracker.netlify.app | github.com/ErinMeiMatheny/covid-case-tracker
- Member of 3 person team building a front end web application utilizing visual aides to display Covid-19 case statistics
- Responsibilities included designing and developing responsive layout and incorporating search functionality with Google Maps API
- Built with HTML, CSS, Javascript, Chart.js, Google Maps API

Nutrition Tracker | nutrition-tracker-dc.herokuapp.com | github.com/ErinMeiMatheny/nutrition-tracker
- Member of 4 person team developing an app where a user can register, log in and track nutrition statistics
- Responsibilities included building database and backend API routes, incorporating third party API and building front end functionality for searching and logging nutrition information
- Built with HTML, CSS, Javascript, RESTful API, PostgreSQL, Node.js, Express

Application Tracker | application-tracker.netlify.app/ | github.com/ErinMeiMatheny/capstone-job-app-tracker
- Member of 3 person team building full stack application where user can register and track jobs for which they have applied as well as search for job openings
- Responsibilities included using sequelize to build backend API routes, incorporate GitHub Jobs API for job search capabilities, and building React.js components to display user application data from Heroku database

WORK EXPERIENCE

Premier Oilfield Group
Geoscientist (X-Ray Diffraction Specialist), Houston, TX   March 2019-Present
- Assist supervising global XRD lab operations and trained employees to use analytical software to model bulk mineralogy at satellite facility in Cairo, Egypt
- Interpret diffractograms to identify mineralogical phases present and weight percent content using both Reitveld Refinement and Relative Intensity Ratio methods
- Generated thousands of data points that served as inputs to build mineralogical neural network
- Train employees in proper geologic sample preparation, data collection and quality control
- Communicate with technical leads and project managers to give realistic expectations of data that can be obtained given quality of sample and discuss results and methodology with clients

Lab Technician, Houston TX   November 2017 - March 2019
- Prepared, tested, and interpreted thousands of samples for proprietary and internal projects
- Managed timelines for data generation and reporting
- Travelled to different client locations for onsite geochemical services provided by company