Matt Fergoda

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TECHNICAL SKILLS

Languages: Python, Javascript, TypeScript, SQL, HTML, CSS, R
Libraries: React, React Testing Library, React Native
Frameworks / Tools: Node, Express, Jest, Django, Flask, NextJS, SQLAlchemy, unittest, VSCode, Git, GitHub, Bootstrap, Tailwind CSS, Docker
ML / Data Science Tools: pandas, NumPy, Sci-Kit Learn, XGBoost, SHAP, Tensorflow, statsmodels, mlxtend, matplotlib, seaborn

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   Dec. 2023 – Current
Rithm School   *San Francisco, CA (Remote)*
- Designed and developed an announcement notification feature in Django and PostgreSQL to allow staff to post notifications to subsets of students in the student information system, which is licensed to external customers.
- Built a new admin UI for performing CRUD operations on the announcement model that matches the workflow of existing admin views for a seamless UX.
- Maintained 100% code coverage for all new features.
- Designed and built a prototype mobile app homepage for the system using React Native for cross-platform compatibility.

TECHNICAL PROJECTS

Job Posting App   Live Demo | GitHub (Frontend) | GitHub (Backend)
- Built a RESTful backend in Express with JWT-based authentication, request body validation with JSON Schema, and 100% test coverage including unit and integration tests.
- Designed and developed a React frontend with maintainable, modular components.
- Used Bootstrap CSS and Reactstrap styled components to achieve a consistent, professional look-and-feel on mobile and desktop.

Image Storage and Editing App   Live Demo | GitHub (Frontend) | GitHub (Backend)
- Designed and built a photo storage and editing web application from scratch with a Flask backend to leverage Python's Pillow library for photo manipulation and editing.
- Persisted image files in an AWS S3 bucket for hands-free versioning, and to serve them without needing to transfer data to the frontend.
- Stored each image's EXIF metadata in a PostgreSQL database to allow the user to search for photos by fields like camera brand and model.

ADDITIONAL WORK EXPERIENCE

Data Scientist   Aug. 2022 – April 2023
Advata   *Bellevue, WA*
- Developed ML models in Python for finding the root causes of healthcare claim denials for customers across 13 health systems nationally affecting billions of dollars of customers' annual revenue.
- Within one to two two-week sprints would prototype solutions in Python using tree-based ensemble models, neural networks, unsupervised methods, statistical tests, forecasting models, and explainable-AI methodologies to add advanced analytics features to the product.

- Presented prototypes and the results of analyses to technical and non-technical audiences to enhance cross-team collaboration.
- Managed collaboration between product and engineering teams to execute cross-functional projects for some of the largest health systems in the country.

Data Scientist
May 2021 – July 2022

Valence Consulting (now Kopius) — *Bellevue, WA*

- Owned the development of ML models for predicting the value of healthcare claim appeals for one of the largest healthcare systems in the country.
- Used Azure Databricks to perform ETL workloads, develop ML pipelines, and extract actionable insights involving hundreds of millions of rows.
- Built cloud data pipelines using Azure Data Factory to quickly and securely migrate health data to a third party for a large midwest-based health system.

Data Scientist
Aug. 2018 – April 2021

Hitachi Consulting — *Bellevue, WA*

- Worked with industry-leading manufacturing companies to design, develop, and deploy ML models for predictive maintenance and machine vision using R and Python ML stacks to prevent costly outages.
- Contributed data visualizations and original analyses to a Fortune 500 software company's monthly marketing performance reports to the Chief Marketing Officer and marketing VPs across three lines of business affecting the prioritization of millions of dollars of ad spend.

EDUCATION

Rithm School
2023

Full Stack Web Development Bootcamp

University of Puget Sound
2014-2018

Bachelor of Science, Physics, Summa Cum Laude — Tacoma, WA