

Isaac Styles

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Languages	Web
Python, C#, JavaScript, HTML, CSS, C, R, VBA, BASH	ASP.NET, Azure, LAMP, REST API, jQuery, React, Knockout, Leaflet.JS
Data	Supporting Technologies
SQL, MySQL, Excel, Tableau, Pandas, GeoPandas, XML, JSON	Git, Docker, Microsoft Reports, ActiveReports, Telerik UI, Postman

Work Experience:

Software Engineer: Efficiency Lab, Asheville, NC

March 2017 - December 2022

Worked as Research and Development Contractor for Electric Power Research Institute (EPRI).

- Developed full stack tools for engineers on a small, agile, DevOps team.
- Participated in cross functional teams of managers, engineers, data scientists, and stakeholders.
- Communicated effectively with experts in fields that I had no prior depth of understanding.
- Developed and tested algorithms, APIs, SQL databases, and queries.
- Translated complex math models from design documents into code.
- Developed interactive dashboards for data ingress, analytics, and visualization.
- Developed custom PDF and Excel reports and data sources.
- Implemented statistical analytics, calculus, and ML in C# and python.
- Performed analytics and data visualization using Tableau and pandas.
- Optimized legacy algorithms and queries for maintainability and performance.
- Attended regular data science and analytics seminars.

Project Summaries:

- **EPRI Bearing Action Advisor (2017 - 2022)**
 - Led backend development of algebraic and statistical algorithms that support mission-critical turbines.
 - Translated complex math models in Excel to C#.
 - Ensured numerical accuracy and traceability by developing a rigorous automated testing platform.
- **EPRI Cost Analysis Tool (2018 - 2021)**
 - Developed data dashboard with interactive line graph and grid.
 - Developed calculus-based stats model from design documents.
 - Scaled algorithm by preprocessing and parallelizing calculations.
- **EPRI Data Mining Initiative (2017 - 2018)**
 - Spearheaded a cross functional team. Developed a decision tree algorithm to detect electric vehicle charging in meter data.
 - Developed pipeline to train and cross-validate ML models.
 - Engineered features using knowledge discovery process.
 - Presented algorithm and results at Data Analytics Forum.
- **ETSU Software Engineering II - Data Research Team (2016)**
 - Product Owner of agile research team that developed a data visualization tool for community social resources.
 - Developed ETL pipeline for disparate Census Bureau datasets.
 - Plotted GIS county lines and heatmap overlay with Leaflet.JS.
 - Analyzed population density data with GeoPandas and rasterio.
 - Geocoded street addresses to coordinates using GeoPy.

Education:

- **B.S. in Computer Science** from East Tennessee State University

Experience Summary:

- Agile / Scrum
- Full Stack
- Python, Pandas, and GeoPandas
- MS SQL Server
- JavaScript UI Frameworks
- Report Creation
- Machine Learning
- Calculus-based Stats
- Graduate AI Course
- Parallel and Distributed Systems
- Software Testing
- Workflow Automation