MAX BLASDEL

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Skilled data analytics generalist with experience in ETL pipelines, geographic analyses, web development, and automation. My background is in renewable energy, environmental sciences, and most recently healthcare. My goal is to become an expert in my field and an expert in the tools that I use. Coding changed my life, and I will continue to expand my skills and knowledge of different systems.

EXPERIENCE

Data Consultant V - Kaiser Permanente   Dec 2023 – Current
- Oversaw development of large data pipeline involving data validation, and normalization of 20+ inputs
- Automation of Python ETLs through linux environment deployment resulting in a savings of ~250k/year
- Utilize SQL and Python to automate ETLs that populate business facing dashboards
- Helped lead team through internal IT troubleshooting related to enterprise software
- Built custom data visualizations with R Shiny leveraging CSS and JavaScript

Data Consultant IV - Kaiser Permanente   Apr 2022 – Dec 2023
- Automated document creation with a combination of R and Python to eliminate ~40 hours/month of labor
- Led effort to transition web applications to R Shiny through POC development and info sessions
- Create and maintain ETLs through a combination of R, Python, and SQL
- Support team development through R and Python package development

BI Engineer - Wavicle Data Solutions   Dec 2021 – Apr 2022
- Provided leadership in team development environment
- Gained knowledge and certificates in AWS infrastructure
- Updated, optimized, and documented large R script code base for client
- Maintained and debugged R Shiny application in server environment

Data Analyst - CLEAResult   Jun 2021 – Dec 2021
- Conducted economic analysis and provided insights for energy-related projects
- Created and maintained dashboards in Power BI, including updates to star schemas
- Developed R packages for internal use to streamline ongoing analyses
- Managed ETL processes in Alteryx and maintained database updates

Data Analyst - Cadmus Group   Mar 2020 – Jun 2021
- Developed R Shiny applications for modeled EV adoption and energy use
- Converted Excel-based economic model into an R package with efficiency and speed gains
- Led use of Python model for solar adoption project in DataBricks environment
- Performed cost-effectiveness analysis on utility programs

Research Assistant - Schatz Energy Research Center   Aug 2017 – Mar 2020
- Built JavaScript web tool to display project results, meeting project scope requirements
- Wrote and maintained R code for parallel processing of large spatial datasets
- Generated spatial analyses of wind generation potential for use in public presentations and discussions
- Provided mentorship and guidance for students and staff members

EDUCATION

Humboldt State University, MS Environmental Sciences   2017 – 2019

Portland State University, GIS Certificate   2015 – 2016

Oregon State University, BS Natural Resource Management   2011 – 2014

SKILLS
- Scripting Languages: Python, SQL, R, JavaScript, Bash
- Databases: SQL Server, Postgres/PostGIS, Oracle, SQLite
- Geospatial: ArcGIS, GDAL, sf, geopandas
- Version Control: Github, Gitlab
- OS: Windows, Linux

- Cloud: AWS, DigitalOcean
- ETL Tools: Alteryx, Databricks

PUBLICATIONS

Reduction potentials for particulate emissions from household energy in India

- Lam, N., Goel, V., Blasdel, M., Xu, L., Ruiz-Mercado, L., Ozaltun, B., Aoudi, L., Whitacre, J.V., Bond, T.C. (2023) Reduction potentials for particulate emissions from household energy in India. Environmental Research Letters. Volume 18. Number 5

Moving beyond incineration

- Fingerman, K., Anderson, D., and Blasdel, M. (2019). Moving Beyond Incineration: Putting Residues from California Forest Management and Restoration to Good Use. Sierra Club of California. San Francisco, CA