

Branson Fox

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SUMMARY

Experienced data engineer with expertise in GIS, statistics and building big data systems.

WORK EXPERIENCE

Data Engineer Mar 2022 - Present

NCX (Natural Capital Exchange)

- Built several spatial data pipelines to assess all land in CONUS for forestry development
- Worked closely with data scientists to scale Bayesian pipeline to compute carbon credits
- Lead experimentation to benchmark models and develop new products

Senior Statistical Data Analyst Sep 2020 - Mar 2022

Washington University School of Medicine - Division of Infectious Diseases

- Maintained Bayesian model to project COVID-19 hospitalizations statewide
- Learned and applied epidemiological modeling techniques
- Directly advised state, local and private health agencies

Lead Data Engineer Jun 2020 - Jan 2023

Regional Data Alliance @ University of Missouri St. Louis

- Built pipeline to scrape, catalog and distribute regional public datasets
- Managed ongoing rotation of consultants

Data Scientist Dec 2018 - Sep 2020

Washington University School of Medicine - Institute for Public Health

- Implemented private geospatial infrastructure for analysis of sensitive data
- Developed novel methods of spatial interpolation
- Published research on property vacancy and crime

EDUCATION

Saint Louis University 2016 - 2020

B.A. - Sociology and Demography

Minor - Computational Geospatial Science

PUBLICATIONS

I have published some modest findings in infectious diseases, public health and methods in GIS. See [bransonf.com/scholar](#) for an up-to-date list.

CORE TECHNOLOGIES

Languages	Python, R, SQL (Postgres, PostGIS, Spark, BigQuery), Javascript, Scala, Bash, Git
Libraries	Docker (Compose, Kubernetes), AWS (CDK, Cloudformation), Airflow, GDAL, Databricks (Spark, MLFlow), Terraform, Metaflow, Sentry
Python	Jupyter, FastAPI, Celery, Pandas, Shapely, Numpy, Xarray, Dask