

+ summary

I like making tools that will help build a better tomorrow 🚀

+ employment

Bluelabs Analytics

Data Operations Lead

Nov. 2021 to Current

- Lead team responsible for scaling data infrastructure and optimizing pipeline performance powering consumer outreach for [Healthcare.gov](#), amounting to 90 million+ weekly automated pieces of communication (email, text, call, etc.)
- Architect roadmap and oversee implementation of ETL refactor from a SQL/ Ruby pipeline into Python based Airflow processes
- Design, build and enhance workflows to ensure daily consumer outreach information is delivered on time (100% success rate)
- Research available tools and technologies to improve existing processes (ex. Docker, Airflow) and train team members on effective implementation
- Develop Python-based SDKs to interact with database (Vertica), enabling team to consume and understand data more intuitively
- Collaborate with senior leadership, project managers, and analysts to deliver insights that inform evolving strategy used by the White House to increase enrollment in health coverage
- Own responsibilities around root cause analysis, production and data issues such as validation

Senior Data Analyst

Sept. 2020 to Oct. 2021

- Design, automate, build, and launch scalable, efficient and reliable data pipelines into production using Python
- Architected and deployed set of custom Python libraries, including: an email-parser that processes and applies predictive NLP models to tens of thousands of emails; a suite of tools that interact with a Vertica database to streamline real-time reporting capabilities; and a tool that generates customizable reports and Excel-based dashboards for our clients
- Write advanced queries using Ruby-templated SQL that enable millions of pieces of consumer outreach, per week

Results for Development

Project Officer

Jan. 2017 to Aug. 2020

- Built and oversaw multivariate regression models to inform Tanzanian Ministry of Finance on health budget creation while serving as visiting Health Financing Specialist
- Designed and oversaw implementation of monitoring and evaluation strategy of global health financing learning cohorts
- Authored numerous publications on evaluating primary health care outcomes and health care financing ([1](#), [2](#))
- Conceptualized and produced a [podcast on strategic health financing mechanisms](#) used across developing nations
- Collaborated with Ministries of Health and Ministries of Finance across low and middle income countries; presented research findings at conferences in: Hanoi, Vietnam; Bridgetown, Barbados; Kampala, Uganda; Nairobi, Kenya; Kuala Lumpur, Malaysia; Addis Ababa, Ethiopia; Dar es Salaam, Tanzania; Dodoma, Tanzania

+ education

Boston University

Bachelor of Science 2015

Master of Public Health Epidemiology 2016

+ projects

[CryptoCallingCard](#) Jan. 2022 to Current

- Smart contract to generate randomized business card NFT, deployed on Rinkeby testnet

Tech stack: Solidity, Brownie, Python (Web3)

[ZeroDays.live](#) Nov. 2020 to Current

- Architected and deployed automated dashboard that tracks daily incidents of gun violence in the United States
- Developed Twitter-bot that shares updates on gun violence statistics across the United States ([@ZeroDaysLive](#))

Tech stack: Python; SQLite; Docker; AWS

[BeepThisJeep.com](#) May 2021 to Current

- Web-app that displays geo-tagged photos documenting a cross-country road trip
- Leverage Flask and the Gmail API to create an automated pipeline where tagged images can be sent to an application-specific email inbox to be uploaded and mapped to their appropriate location on map of United States

Tech Stack: Python; Flask; Docker; AWS

[PatrickForANC.com](#) Sept. 2020 to Nov. 2020

- This simple site was designed in support of the grassroots campaign for a local elected representative

Tech Stack: Javascript; JQuery; HTML; CSS

+ skills

TECH

Python
JavaScript
SQL
Solidity
HTML
CSS
Vertica
Airflow
Docker
AWS
Git
SQLite

PROJECT MANAGEMENT

Technical workstream management
Budget creation and management
Asana
Confluence
Jira