

► EDUCATION

Johns Hopkins Bloomberg School of Public Health
MS Public Health 2013

Massachusetts Institute of Technology
SB Urban Studies and Planning 2008

► SKILLS

ANALYSIS: Python/pandas, NumPy

MACHINE LEARNING: scikit-learn

DATABASES: PostgreSQL, MongoDB

CLOUD: Amazon Web Services (AWS)

DATA ACQUISITION: Scrapy, BeautifulSoup, Selenium

DATAVIZ: d3.js, Flask, matplotlib

SPATIAL: Leaflet.js, ArcGIS, CARTO

► PROJECTS

EXPLORR: BETTER WALKING DIRECTIONS

Walking path recommendation Flask app built on Google Maps Directions API and 100M Creative Commons Flickr dataset using Shapely, Folium Python libraries.

NATURAL LANGUAGE PROCESSING FOR TRIPADVISOR HOTEL REVIEWS

Classification model using non-negative matrix factorization (NMF) topic modeling, tf-idf vectorization, and sentiment analysis using TextBlob. Built with Python/pandas, scikit-learn, Scrapy, BeautifulSoup, hosted on Amazon EC2.

CHILD MARRIAGE AND DOMESTIC VIOLENCE: IMPLICATIONS FOR POLICY

Logistic regression model with feature engineering, principal components analysis (PCA) using Demographic and Health Survey dataset. Built with Python/pandas, scikit-learn, statsmodels.api, seaborn, matplotlib, d3.js visualizations.

LUNCH-ROULETTE: A SLACK BOT

Made a persistent chat bot that sits in the #lunch channel at Metis and displays on-request a random lunch spot recommendation within walking distance of WeWork NoMad. Built in Python, using the Yelp API and Slack API.

YOUR NEXT BOX OFFICE HIT

Linear regression predictive model for domestic revenue with interaction terms and regularization. Data scraped from boxofficemojo.com using BeautifulSoup.

► EXPERIENCE

METIS

Data Scientist

New York, NY
Fall 2016 to Present

- Delivered 5 projects in 12 weeks for 445-hr bootcamp covering predictive modeling, machine learning, and data visualization.

OLDJA ENTERPRISES, INC

Manager/Salesperson/Owner

St. Petersburg, FL
2015 to 2016

- Set company record for highest countertop sale since 2007 at Tampa Bay's favorite kitchen and bath remodeling showroom (\$2M annual revenue). Managed all aspects of customer and supplier relations for projects sold. Launched website v3.0 built on Bootstrap.

INTERACTIVE RESEARCH & DEVELOPMENT

Monitoring & Evaluation Manager/Acting Country Manager

Multiple Cities, South Africa
2014 to 2015

- Established Johannesburg & Durban offices for a distributed team, based in Dubai, Singapore & Karachi. Worked w/ Aurum Institute (local partner) & Ministry of Health to launch 1-year focused TB/HIV control program in 24 clinics, funded by UN StopTB Partnership.
- Designed digital data collection tools incl. Access SQL database, codebook for Android mobile app linked to OpenMRS database.
- Developed weekly project monitoring updates and submitted quarterly written/analytic monitoring & evaluation (M&E) reports to donor using Excel, STATA. Presented poster on program's gender profile at the 2015 Union International Lung Health conference.

JOHNS HOPKINS UNIVERSITY

Field Research Manager

Dhaka, Bangladesh
2014 to 2014

- Managed team of 17 Research Assistants & Field Attendants, coordinated sample transfer to labs & access to results, wrote SOPs & daily update reports to PIs, conducted 5% data quality checks & wrote preliminary analysis for study of 200 households' behaviors.
- Cleaned Shigella household data and generated descriptive statistics, t-tests in STATA. Co-authored 5 peer-reviewed papers.

THE CARTER CENTER

Technical Advisor, Guinea Worm Eradication

Kapoeta North Sub-Office, South Sudan
2013 to 2013

- Ensured program adherence to standards in 96 villages and camps. Monitored key implementation metrics (filters distributed, water sources treated) & wrote monthly reports, submitted via satellite to Secretariat and South Sudan Ministry of Health.
- Directly managed 16 East African nationals, provided support to 19 volunteer Area Supervisors & 122 village volunteers. Oversaw all logistics & finances, including payroll and transport, within program area. Successfully eradicated endemic disease in program area.

INTERNATIONAL VACCINE ACCESS CENTER

Graduate Research Assistant

Baltimore, MD
2012 to 2012

- Analyzed and summarized topics, sentiment of in-depth interviews with key stakeholders/decision-makers in Chile and Mexico in order to determine willingness to introduce Hepatitis A into national vaccine schedules. Qualitative analysis using ATLAS.ti.