

Eric Son

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EXPERIENCE

National Institutes of Health

Civic Digital Fellow – Data Science

Bethesda, MD

June 2020 – Present

- Designed and connected database servers into a web application to display the Central Utility Plant's \$70M annual energy consumption data in an internal web server
- Integrated input form with the database to enter and search utility records, and a visualization dashboard that summarizes energy usage and cost avoidance data

Center for Municipal Finance

Research Assistant

Chicago, IL

Feb. 2020 – June 2020

- Built a reproducible data pipeline that outputted reports for tax regressivity in America, identifying counties that had a regressive tax assessment system that makes low-income property owners pay a higher share of property tax
- Generated an analysis of the assessments completed by the Cook County Assessor's Office using eight years of FOIA-requested data

University of Chicago Survey Lab

Research Assistant

Chicago, IL

Jan. 2020 – June 2020

- Develop an automated report for the annual health-and-wellness survey
- Partnered with Chicago Police Department to design and evaluate the effectiveness of use-of-force training programs

EAB Global

Strategic Targeting Analyst

Richmond, VA

Oct. 2016 – July 2019

- Key achievement: reduced operation execution time for 250+ undergraduate clients by 90% through an initiative to develop Python web-application automation tools
- Identified contact opportunities for 80+ clients by developing a reporting tool that analyzed national student datasets
- Applied predictive analytics model across enrollment pipeline for clients to meet incoming class goals, with a focus on direct marketing campaign to prospective students and recent high-school graduates

Colonial Williamsburg Bruton Heights Education Center

Program Associate (Education, Research and Historical Interpretation)

Williamsburg, VA

Apr. 2015 – June 2016

- Led the data migration of 200+ education resources to a new data warehouse for online access
- Researched and produced teacher development content and programming for distance learning

PROJECTS

Chicago Streets Stats – Big Data AWS web app that displays historical/current street congestion, crashes, and traffic violations

City of Chicago Salaries – Shiny web app that shows interactive tree map and searchable table of Chicago govt. employees

Housing Affordability Prediction – predict housing affordability in Chicago neighborhoods using price-to-income ratio

U.S. Energy Consumption – Django web app that displays U.S. state energy consumption trends since 1950

EDUCATION

University of Chicago

Master of Science in Computational Analysis and Public Policy

Chicago, IL

Expected June 2021

College of William and Mary

Bachelor of Arts in Economics and Film/Media Studies

Williamsburg, VA

May 2015

SKILLS AND INTERESTS

Programming: Python, R, Java, Stata, HTML/CSS, JavaScript

Framework: Django, Bottle, Flask

Big Data: Hadoop, MapReduce, Spark, HBase, HiveQL

Data visualization: Tableau, QlikView, Power BI

Database: PostgreSQL, MySQL, SQLite

Other: ArcGIS, Adobe Creative Suite, Apple Final Cut Pro