Eric Son

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EXPERIENCE

National Institutes of Health   Bethesda, MD
Civic Digital Fellow – Data Science   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   Chicago, IL
Research Assistant   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   Chicago, IL
Research Assistant   Jan. 2020 – June 2020
- Develop an automated production system for the annual health-and-wellness survey report
- Partnered with Chicago Police Department to design and evaluate the effectiveness of a new training program

EAB (Education Advisory Board)   Richmond, VA
Strategic Targeting Analyst   Oct. 2016 – July 2019
Associate Strategic Targeting Analyst   Oct. 2016 – Sep. 2018
- 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   Williamsburg, VA
Program Associate (Education, Research and Historical Interpretation)   Apr. 2015 – May 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

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PROJECTS

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

U.S. Energy Consumption – Search engine interface that outputs an energy source table and visual representations of state energy consumption trends over time

Player Advanced Statistics – Developed web scraping and data cleaning process to retrieve historical NBA player data, used regression models to predict hall of fame probability and basketball positions

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EDUCATION

University of Chicago   Chicago, IL
Master of Science in Computational Analysis and Public Policy   Expected 2021

College of William and Mary   Williamsburg, VA
Bachelor of Arts in Economics and Film/Media Studies   May 2015

SKILLS AND INTERESTS

Programming: Python, R, Stata, HTML/CSS, JavaScript   **Data visualization**: Tableau, QlikView, Power BI
Framework: Django, Bottle, Flask   **Database:** PostgreSQL, MySQL, SQLite
Other: ArcGIS, Adobe Creative Suite, Apple Final Cut Pro