

# EUJENE YUM

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## EDUCATION

**University of Chicago**, Dept. of Computer Science & Harris School of Public Policy  
MS Computational Analysis in Public Policy

**Chicago, IL**  
**Expected May 2023**

**Relevant Coursework:** Python Programming, Machine Learning, Databases, Cloud Computing, Data Visualization, Time Series

**Involvement:** Intermediate Python TA, R Coding Lab TA, Data Visualization RA via geopandas

**Tufts University**

BA in Economics | *Summa Cum Laude, Phi Beta Kappa (given to 40 students)*

**Medford, MA**  
**May 2017**

**Selected Courses:** Statistics, Econometrics, C++, MATLAB, Web Programming

## TECHNICAL SKILLS

**Coding Languages:** Python, R, Stata, SQL, SAS, C++

**DS/Visualization:** Data scraping and storage via AWS boto3, BeautifulSoup, pandas, Hadoop  
Visualization via d3js, flask, streamlit, dash, ggplot, matplotlib, html/CSS, Power BI  
Machine Learning via scikit-learn

## PROJECTS

**Database | Manage Food Inspection Data (available upon request)**

- Built a RestAPI via Flask and SQL to perform CRUD operations on ~1k food inspection data from the City of Chicago
- Implemented blocking and indexing in SQL to optimize data cleaning algorithm by 40%

**Data Analysis & Viz | Chicago 311 Responses**

- Created dash webapp layering 311 request responses on demographic data by scraping 3 years' worth of data via Chicago Data Portal API and conducted extensive data analysis in Jupyter Notebook and pandas

**ML | Opioid Prescription and Prediction**

- Learned best models and predictors on whether a person is likely to be prescribed opioid using 66,000 data points from the Medical Panel Survey data; highest recall value came from the decision tree model

**Data Visualization | Why don't Americans Vote?**

- Used HTML, CSS, JS, d3.js, and pandas to manipulate data to conduct visual storytelling with interactive graphs

## EXPERIENCE

**BUREAU OF LABOR STATISTICS**

**Washington D.C.**

**Civic Digital Fellow | Data Science Intern, Division of Industry Productivity Studies**

**Jun 2022 – Aug 2022**

- Built an automated high frequency dashboard using streamlit and pandas (python) of monthly productivity measures in 70+ retail industries utilizing Census and BLS's API
- Led the migration from annual to monthly productivity measures by automating the process of extracting, cleaning, and aggregating information from 9 disparate data sources in python; saved the team 15+ productivity hours per month

**LIBERTY MUTUAL**

**Boston, MA**

**Analyst, Casualty Claims Advanced Analytics**

**Sep 2018 – Apr 2021**

- Established an infrastructure for a centralized reporting suite and led a team of 12 analysts to create over 30 fully automated Power BI reports, supporting 80+ managers in their ability to monitor the health of the organization
- Revamped internal development tools using Power BI and Hadoop to assist managers in tracking employee performance
- Performed and monitored regressions and forecasting models in SQL on claim characteristics to inform staffing decisions
- Advised decision-making of senior management on report consolidation to improve efficiency of front-line managers

**Senior Associate, Analyst Development Program**

**Sep 2017 – Aug 2018**

- Saved the analytics team 10+ hours of ad hoc work per month by building automated Power BI reporting via Hadoop to aid call center managers to quickly identify daily sales performance
- Developed flexible model in Excel that factors in vendor and state nuances to optimize lead routing system for max revenue

**Analyst Development Program Intern, Catastrophe Management Analytics**

**May 2016 – Aug 2016**

- Investigated and presented on the long-term risk of insuring coastal properties in Texas
- Conducted a historical storm analysis using SAS, SQL, and Excel to inform underwriting strategies across different states

## LEADERSHIP

**President / South Side Civic @ University of Chicago**

**Aug 2020 – Present**

- Executed the annual Scope-a-thon where 80+ data science and policy students scope technical solutions for 12 local civic organizations
- Led outreach initiative to secure organizations & keynote speaker; moderated training sessions with organization leaders and students