

MAX EFREMOV

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SUMMARY of KEY QUALIFICATIONS

- Data scientist and machine learning engineer who delivers tested, validated, fully deployed predictive models with reliable architecture to solve a variety of challenging business problems under deadline
- Deeply curious, empathetic, and analytical problem-solver skilled at identifying and addressing key business obstacles

EDUCATION

Lambda School, remote

June 2020

Data Science Fellow

A 9-month, 1,600+ hour data science and software development program with a concentration in statistics, machine learning and real-world model development, validation, and deployment. Relevant coursework:

- Data Engineering and Infrastructure
 - Data Mining & Wrangling ◦ APIs and Web Scraping ◦ Data cleaning ◦ Databases ◦ Amazon Web Services (AWS) ◦ GitHub
- Predictive Modeling
 - Descriptive Statistics and Hypothesis Testing ◦ KNN ◦ Regressions ◦ Bias-Variance Tradeoffs ◦ Model Testing, Validation
- Machine Learning and Advanced Prediction
 - Supervised and Unsupervised Learning ◦ Natural Language Processing ◦ Tree Ensembles ◦ Neural Networks

Towson University, Baltimore, MD

May 2019

Bachelor of Science in Economics cum laude; honors college

- Member of Honors College; GPA 3.84, Dean's List every semester; studied abroad at Yonsei University in Seoul, South Korea
- Econometrics, Statistics, Computational Economics, Macroeconomic Theory, Microeconomics, Money & Banking, Finance

PROJECT EXPERIENCE

Center for Advanced Defense Studies, Washington, DC

January – March 2020

Data Science Technical Consultant, SanctionsExplorer

Created search tool providing information pertaining to internationally-sanctioned entities from hundreds of government agency databases and unstructured reports from authorizing bodies such as the United States, the US Treasury, and the United Nations

- Deployed continuously web-crawling, natural language processing model; features include entity extraction from narrative-style, unstructured government reports
- Continuously tested, persistently deployed, routine automatic updating; hosted as full-stack web application with team of three data scientists on a tech stack of Python, Flask, and AWS Elastic Beanstalk, CodePipeline, Route 53

Computer Vision Web Application, Cross-team remote

November – December 2019

Machine Learning Engineer, PicMetric

Batch user image object detection and classification web application; multiple cutting-edge computer vision models perform static image or live object detection

- Deployed YOLO, ResNet50, and MTCNN models as Flask web application with user login functionality
- Developed and tuned vision models in AWS SageMaker, hosted continuously on EC2

WORK EXPERIENCE

Morgan Stanley, Baltimore, MD

June 2018 – August 2018

Analyst, Legal & Compliance Division

Supported Wealth Management compliance teams in their testing, audit, and reporting functions during summer program

- Developed and enhanced controls around a firm-wide global blacklist pertaining to internationally sanctioned entities, through which every account opening and transaction at the firm passes through
- Reviewed millions of securities transactions other business activities of firm's 15,000 financial advisers to ensure compliance with the complex regulatory and legal environment

AmeriCorps National Civilian Community Corps, IA, NE, MI, IL

Field Team Leader

January 2014 – November 2014

Led a highly diverse team of 9 young adults in a year-long federal, national community service program throughout American Midwest

COMMUNITY LEADERSHIP

- *Group Facilitator*, **Baltimore Artificial Intelligence Forum**, October 2019
- *Assistant Head Coach*, **Baltimore City High School Men's Lacrosse Program**, January – April 2016
- *Disaster Response - Team Leader*, **All Hands Project Detroit**, January – February 2015