

# MAX EFREMOV

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## SUMMARY of KEY QUALIFICATIONS

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- Data scientist and machine learning engineer with cross-functional end-to-end model and product development experience
- Strong understanding of mathematical and statistical foundations and excellent ability to identify and present insights in clear, concise, compelling manner

## PROJECT EXPERIENCE

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**Center for Advanced Defense Studies**, Washington, DC

January – March 2020

*Data Science Technical Consultant*, SanctionsExplorer

Led development of machine learning search and analytics-visualization web application on small cross-functional team that provides information pertaining to internationally-sanctioned entities from 100s of government agency databases and reports

- Deployed continuously web-crawling, natural language processing (NLP) and named entity recognition (NER) model; features include probabilistic entity extraction from narrative-style, unstructured text; responsible for 15% recall improvement
- Continuously tested, persistently deployed, routine automatic updating; hosted as full-stack web application with team of 3 data scientists on a tech stack of Python, Flask, spaCy, and AWS Elastic Beanstalk, CodePipeline, Route 53

**PicMetric**, Cross-team remote

November – December 2019

*Machine Learning Engineer*, PicMetric Web App

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

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

## WORK EXPERIENCE

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**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

- Enhanced controls around a firm-wide global blacklist pertaining to internationally sanctioned entities, through which every account opening and 10,000,000s of transactions at the firm pass through every day
- 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

## EDUCATION

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**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

- Sample of Real-World, Cross-Functional Projects
  - Consumer credit-scoring algorithm ◦ NLP web search tool ◦ Spotify database song recommender ◦ Image classification application ◦ static and dynamic web pages ◦ AI Twitter application that predicts user origin of any inputted tweet
- Data Engineering and Infrastructure
  - Data Mining & Wrangling ◦ APIs and Web Scraping ◦ Data cleaning ◦ Databases ◦ Amazon Web Services (AWS) ◦ GitHub
- Machine Learning and Advanced Prediction
  - Natural Language Processing ◦ Neural Networks ◦ CNNs for computational imaging ◦ XGBoost for ensemble learning

**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

## COMMUNITY LEADERSHIP

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- *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