# JOSHUA GOLDBERG

Data scientist proficient in statistics, machine learning, and software engineering. Proficient in python, R, SQL, and C++ using functional programming and object-oriented design. Examples of my work include machine learning models to optimize sales and marketing programs with an estimated impact of \$1 million net revenue annually at a financial institution; models to detect risky behavior across millions of third-party sellers on amazon.com<sup>7</sup>, and forecasting models to predict demand of 500,000+ products on Amazon's Marketplace. Outside of work, I enjoy distance running, reading, and developing/implementing algorithms<sup>2</sup> in C++.





## INDUSTRY EXPERIENCE

Current 2020

## **Data Scientist**

Seattle, WA Amazon

- · Conceptualize and implement machine learning models for forecasting and supply-chain use-cases; own and maintain python production code in AWS / Amazon SageMaker that predicts customer demand of 500,000+ Amazon products worldwide
- · Built, enhanced, and maintained natural-language machine learning models to detect fraud and abuse from third-party sellers' communication with customers on Amazon's marketplace: models detected and prevented thousands of fraud and abuse cases on a quarterly basis.
- · Create software tools to monitor machine learning models in production

2020 2017

### AVP, Lead Data Scientist

Nuveen

Ohicago, IL

- · Pioneered end-to-end (execution and experimental design) deep learning time series model for client onboarding; estimated impact of the model was \$1 million net revenue annually that maximized client journey (improvement in client retention, client growth, etc.)
- · Built recommendation engine for 150,000 clients in 50+ products
- · Presented model/analysis to executive management; results included model adoption by 100+ sales people and a significant increase sales for clients treated by the model
- · Conceptualized and created simulation engine that isolated, detected and measured the ROI impact of company sales events

2017 2014

## Senior Equity Research Associate, Financial Services

Raymond James Financial, Inc.

Ohicago, IL

· Built company and industry models using finance and statistical techniques, including regression and discounted cash flows (DCF) View this CV online with links at https://goldbergdata.github.io/cv

## CONTACT



josh.goldberg1@outlook.com

**Twitter** 

.name

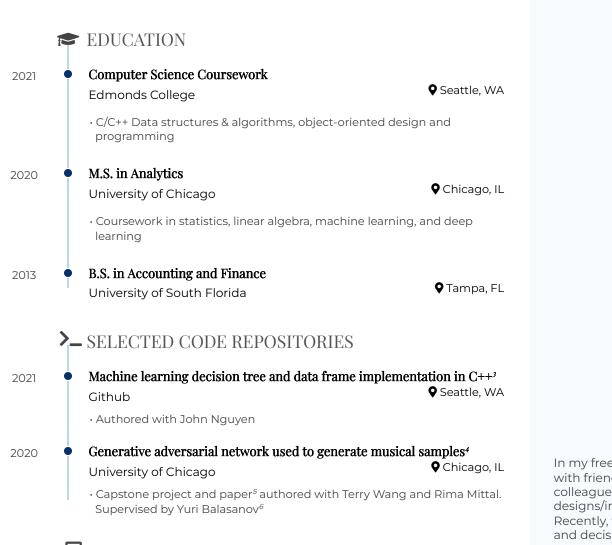
(C) Github

• https://joshuagoldberg

in LinkedIn

## LANGUAGE SKILLS

Python
R
SQL
C++
Bash
HTML/CSS
Javascript



In my free time, I enjoy working with friends, peers, and colleagues on algorithm designs/implementations.
Recently, we built data frame and decision tree classes in C++.

I am passionate about teaching and helping others. It brings me joy and satisfication to teach others new skills.

## TEACHING EXPERIENCE

Current | 2020

### Data Understanding via SQL, Databases, and R

University of Chicago

Remote

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· TA and lecture

· Topics include introduction to databases, mySQL, and R

Current | 2020

### MastersTrack Statistics for Machine Learning

University of Chicago

**Q** Coursera

- · TA and lecture
- Topics include simple and multiple regression, logistic regression, hypothesis testing, variable transformations

## Current | 2020

## MastersTrack Machine Learning

University of Chicago

**Q** Coursera

- ·TA
- Topics include a survey of machine learning algorithms: kNN, support vector machine, decision tree, random forest, boosted trees, and clustering algorithms