

# Daniel Blessing

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## Education

### **University of San Francisco**

M.S. in Data Science (GPA 3.85/4)

**August 2020 - August 2021**

Relevant coursework: Data Structures and Algorithms, Distributed Computing (Spark), SQL, Machine Learning, Experimental Design (A/B testing), NLP, Deep Learning

### **The Johns Hopkins University**

B.S. in Applied Mathematics and Statistics (GPA 3.84/4)

B.S. in Chemical and Biomolecular Engineering

Dean's List six semesters

**September 2016 - May 2020**

## Work Experience

### **Stanford University**

#### ***Research Assistant***

**January 2021 - August 2021**

Stanford, CA

- Developing a deep learning computer vision model to improve MRI dye technology and explore synthetic post-contrast images.
- Implemented 2D and 3D U-Net models with over 10 GB of MRI data to generate post-contrast images for radiologist evaluation.

### **TD Ameritrade**

#### ***Data Science Intern***

**June 2020 - August 2020**

Ann Arbor, MI

- Increased the accuracy of customer behavior prediction to improve futures marketing using random forest classifiers.
- Improved efficiency and readability of SQL scripts for a critical data pipeline to query ClickStream customer data.

### **Ford Motor Company**

#### ***Data Science Intern***

**June 2019 – August 2019**

Dearborn, MI

- Increased operational savings for suppliers through optimizing the mapping algorithm for a 2% better forecast as measured by RMSE using Monte Carlo hyperparameter tuning.
- Leveraged orthogonal mapping algorithm to predict car sales for improved supplier recommendations.

## Independent Work & Projects

### ***Contract Work in Crypto Trading***

**September 2021- January 2022**

- Configured data pipeline with SQL and Google Big Query to track Ethereum wallets for leading trader on FTX
- Worked on low-latency monitoring of Uniswap and CEXs for potential arbitrage opportunities

### ***Fullstack Demo ("raps.ninja")***

**March - June 2022**

- Developed a full-stack CRUD web application with user authentication that generated 10,000-page hits.
- Utilizes NextJS with Typescript for source code and Supabase for the backend.

### ***Mastering Ethereum***

**April 2022**

- Deployed test contracts to Ethereum Kovan testnet, including a banking contract with a reentrancy bug, and exploited the bug.

## Technical Skills

Languages & Technologies: Typescript, React, Python, SQL, Docker, AWS, Spark, PyTorch, Solidity

Coding Examples: [github.com/drblessing](https://github.com/drblessing)