

# RICARDO FRANK BARRERA

I use data to build experiences and delight customers

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## ROLES & IMPACT

### Chief Executive Officer

#### @Startup in Stealth Mode

📅 2017 – present

📍 Seattle, WA

- Developed a residential real-estate investment recommendation system on AWS, using statistics and machine learning to identify top investment candidates
- Developed novel construction strategies and techniques specific to short-term rentals to delight guests while increasing cash flows by 50% to 100%
- Established and managed partnerships with 30+ real estate professionals to support client needs end-to-end
- Recruited, hired, and directly managed a team of 10 handling construction, bookkeeping, accounting, property management, and inventory management
- Personally designed renovation plans (e.g., architectural diagrams, electrical design, plumbing design, etc.), trained team members on construction techniques, and managed construction projects

### Senior Program Manager and Data Scientist

#### @Accolade

📅 2016 – 2017

📍 Seattle, WA

- Established Data Science PM role and charter as first PM
- Worked closely with Accolade executives to identify and deliver high impact investigations and prototypes
- Created probabilistic client experience model providing insights informing investment priority. Because of those insights, I:
  - Deployed the first data science service in production, a health-assistant recommendation service for clients
  - Prototyped a new benefits search system on ElasticSearch to enable content-based search
  - Defined data schema and capture requirements to enable future initiatives like A/B testing the Mobile app
- Spearheaded internal Data Science 101 initiative, boosting collaboration and innovation between Data Science and other teams

### Program Manager II

#### @Microsoft

📅 2011 – 2016

📍 Bellevue, WA

- Reduced storage expenses by \$2,000,000 USD by creating Markov Model used to optimize storage policy and configuration
- Drove improvements to capacity management and business continuity features
  - Reclaimed \$5,000,000 USD in lost revenue and eliminated storage service disruptions due to capacity mismanagement by redesigning storage reporting service
- Supported decommissioning three active production data centers and moving an Exabyte of data in the process

## ABOUT ME

I'm a data-driven Program Manager with 10+ years of experience managing projects at scale (100+ contributors, \$10+ Million USD) and building businesses and organizations from the ground up. My strengths in analytics and communication allow me to effectively manage at scale across organizations and audiences (e.g., C-level executives), as a manager or individual contributor.

## EDUCATION

### M.S. Information and Data Science

#### U.C. Berkeley

📅 2015 – 2017

📍 Remote

### B.S. Electrical Engineering

#### Rice University

📅 2006 – 2011

📍 Houston, Texas

## SKILLSETS

### Program Management

- Methodologies: Agile (Scrum), Waterfall
- Platforms & Tools: JIRA, OmniPlan

### Programming & Data Science

- Languages: Python, SQL, R
- Platforms: AWS Cloud, Docker, Git
- Mathematics:
  - Statistics & Probability Methods, such as:
    - Markov Models
    - AB Testing
  - Supervised Learning Methods, such as:
    - Linear and Logistic Regression
    - Support Vector Machines
  - Unsupervised Learning Methods, such as:
    - K-Means Clustering
    - PCA / SVD
  - Deep Learning Methods, such as:
    - Convolutional Neural Networks
    - LSTM Neural Networks
- Data Science Tools: Tensorflow, SciPy, NumPy, SKLearn, Pandas, Jupyter, Apache Airflow