



# Ricardo Frank Barrera

I use data to design and build experiences

**Accolade** - Senior PM & Data Scientist (2016-2017)

**Microsoft** - Program Manager II (2011-2016)

**Real Estate Investor** - (2014 - present)

**U.C. Berkeley** - Masters in Information and Data Science

**Rice University** - B.S. Electrical Engineering

## SKILLSETS

- **Program Management**
  - Agile (Scrum)
  - Waterfall
  - JIRA
  - OmniPlan
- **Languages**
  - Python
  - SQL
  - R
- **Platforms**
  - Azure/AWS Cloud
  - Docker
  - GitHub
- **Data Science**
  - Statistics & Probability
  - Deep Learning
  - Natural Language Processing
  - Regression Methods
  - Tensorflow
  - SciPy
  - SKLearn
  - Pandas
- **Real Estate**
  - Architectural drawing
  - Electrical
  - Plumbing
  - Framing
  - Property management
  - Financial modeling
  - Accounting
  - Inventory management
  - Deal structuring
  - Negotiation

## IMPACT & DELIVERABLES

### @Accolade, Senior PM & Data Scientist (2016 - 2017)

- **Established Data Science PM role and charter as first PM**
- **Worked closely with Accolade executives to identify and deliver high ROI investigations and prototypes**
- **Created probabilistic client experience model** providing insights informing investment prioritization. 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

### @Microsoft, Program Manager II (2011 - 2016)

- Developed a Markov Model which **reduced storage expenses by ~\$2,000,000 USD** by optimizing storage policy and configuration
- Owned capacity management and business continuity features
  - Rearchitected storage reporting service, **reclaiming \$5,000,000 USD in lost revenue and eliminating storage service disruptions** due to capacity mismanagement
  - **Supported decommissioning three active production data centers and moving an Exabyte of data in the process**
- Owned resource management service features which contributed to **15% to 30% reduction in job execution time at 50th and 95th percentiles**

### @Self-Employed, Real Estate Investor (2014 - Present)

- **Developed a real estate data curator and property investment recommendation system on AWS.**
  - **Web-scrapers** aggregated data from various sources
  - **Data curation pipeline** cleaned raw data
  - **Feature engineering pipeline** enhanced raw data
  - **Convolutional neural net** categorized properties
  - **Data staging service** loaded enhanced data
  - **Report generation service** automated insights
- The recommendation system **identified two strong candidates later acquired for 15-20% below market value** by myself and a partner
- **Built one of my investments out myself** (e.g., architectural drawing, electrical, plumbing, framing, etc.)

## CONTACT INFO

✉ ricardofrankbarrera@gmail.com

☎ 425-529-4737

in /ricardofrankbarrera