RICARDO FRANK BARRERA

I use data to build experiences and delight customers

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IMPACT & DELIVERABLES

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