

RICARDO FRANK BARRERA

I use data to build experiences and delight customers

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IMPACT & DELIVERABLES

Founder & Chief Executive Officer

@Startup in Stealth Mode

📅 2017 – present

📍 Seattle, WA

- Developed a real estate data curator and property investment recommendation system on AWS using novel techniques (e.g., analyze real estate imagery using a convolutional neural network)
 - The recommendation system identified two strong candidates later acquired for 15-20% below market value by myself and a business partner
- Doubled property value based upon projected cashflows using novel construction strategies and techniques specific to short-term rentals to delight guests while maximizing revenue,
- Managed a team of five people involved in construction, bookkeeping, and property management
- Personally handled most construction end-to-end, including architectural drawing, electrical system design and installation, plumbing system design and installation, and framing

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
- Responsible for resource management service features contributing to 15% to 30% reduction in job execution time at 50th and 95th percentiles

ABOUT ME

I'm curious, fearless, driven, and passionate about people, tech, art, and real estate. My greatest strengths are:

- Calm under pressure
- Anti-fragility
- Empathetic
- Intellectual flexibility

EDUCATION

M.S. Information and Data Science

U.C. Berkeley

📅 2016 – present

📍 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, Regression Methods, NLP, Deep Learning
- Data Science Tools: Tensorflow, SciPy, NumPy, SKLearn, Pandas, Jupyter

Real Estate

- Architectural drawing
- Residential electrical
- Residential plumbing
- Residential framing
- Financial modeling
- Accounting
- Property management