

# RICARDO FRANK BARRERA

I blend management and data science to empower organizations and delight customers

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Professional portfolio located @ <https://ricardofrankbarrera.github.io/Data-Science-Portfolio/>

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I'm a **deeply technical Program Manager and Data Scientist** with **10+ years experience** managing projects at scale (e.g., \$100M) and building businesses and organizations from the ground up in **cloud services and real estate**. I specialize in **data-driven product and technical program management**: comfortably **managing complex and large-scale projects** with clear and efficient communication; **creating and executing against road maps** to address pressing business and customer needs; **delivering automation and efficiencies** with mathematical modeling; and **uncovering and communicating data-driven insights** to evolve the business and improve customer experience. In short, I **effectively manage at scale across organizations and audiences** (e.g., C-level executives), as a **manager or individual contributor**.

## KEY CONTRIBUTIONS

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- Grew revenues 70% while reducing expenses by 30% for real estate assets under management with tactical renovations and effective asset management
- Developed a cloud-based deep-learning real estate investment platform supporting clients with \$25M in residential real estate acquisitions leading to 32% in client equity growth – (see a demo in my GitHub portfolio)
- Worked with C-level executives to define Accolade's Data Science road map and deliver the first intelligent services (e.g., health assistant matching service, call-center volume forecasting)
- Delivered \$7M in cost-savings and eliminated storage capacity customer outages via storage optimizations and feature improvements at Microsoft
- Coordinated 50+ contributors to migrate and decommission \$100M in data center capacity at Microsoft

## CORE COMPETENCIES

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Cross-functional coordination | Executive communications | Story-telling and presentation | Crisis leadership | Tactical statistical modeling and analytics | Python | SQL | Docker | Git | Cloud service platforms (e.g., AWS) | Agile & Waterfall project management | Microsoft Office | Residential construction | Financial modeling

## LEADERSHIP PRINCIPLES

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Communication is everything | Nurture and build community | Choose growth opportunities | Relentlessly ask questions | Character over credentials | Bring data to opinion fights | Integrity over ego | Give without expecting in return

## RECOMMENDATIONS

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*"Ricardo's excellent communication skills, presentation skills, and ability to accurately articulate complicated ideas, helped significantly with aligning our team with other technological initiatives at Accolade."*

- Dr. Scott Imig (Senior Director Business Intelligence @ Gaia Inc.), Former Manager @ Accolade

*"Ricardo was highly technical, and always provided helpful and accurate analysis, as well as effectively helped different teams communicate and coordinate complex projects. Ricardo showed dedication and integrity in his daily work, and I would be happy to work with Ricardo in the future"*

- Dr. Yaniv Pessach (Software Engineering Manager @ Facebook), Former Colleague @ Microsoft

# ROLES & RESPONSIBILITIES

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## VP of Construction

@Stealth Startup

📅 Jan 2019 – present

📍 Seattle, WA

**50% Project Management & Construction | 30% Research & Development | 20% Training & Team Management**

Identify short-term rental investments, and scope and manage renovations to maximize profitability:

- **Project Management & Construction:** Design renovation plans and manage construction
  - **Research & Development:** Establish and improve upon renovation best-practices for short-term rentals
  - **Training & Team Management:** Recruited, hired, trained, and directly managed a team of 10 handling tasks in construction, accounting, procurement, and property management
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## Chief Executive Officer

@Sole Proprietor with Multiple Partnerships in Real Estate

📅 Oct 2017 – present

📍 Seattle, WA

**60% Project Management | 20% Data Science & Software Engineering | 20% Consultation**

Support residential real estate investors using proprietary technology and construction and investment expertise:

- **Project Management:** Managed and/or consulted on renovations to mitigate risk, reduce cost, and improve quality
  - **Data Science & Software Engineering:** Developed deep learning residential real estate investment platform
  - **Consultation:** Scoped investment strategy, managed due-diligence, and designed investment and renovation strategy
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## Senior Program Manager and Data Scientist

@Accolade

📅 Apr 2016 – Sep 2017

📍 Seattle, WA

**40% Executive & Leadership Engagement | 20% Road-mapping | 20% Data Science | 20% Project Management**

Recruited by CTO to establish Data Science team, integrate intelligence into Accolade's systems and services, and deliver the next generation experience for Accolade's clients and operations personnel:

- **Executive & Leadership Engagement:** Monthly presentations to C-level executives; Spearheaded company-wide Data Science 101 initiative; Data Science point-of-contact for all cross-team initiatives
  - **Road-mapping:** Owned and managed Data Science team road map
  - **Data Science:** Data exploration, data engineering, and model development
  - **Project Management:** Driving execution for projects and tasks involving Data Science
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## Technical Program Manager II

@Microsoft

📅 Aug 2011 – Mar 2016

📍 Bellevue, WA

**40% Project Management | 20% Road-mapping | 20% System Design | 20% Data Science & Software Engineering**

Deliver features and efficiencies to improve scaling, reduce cost of service, and improve customer experience for Cosmos and Azure Data Lake:

- **Project Management:** Delivered features and improvements for storage compression, capacity management, data-center replication, and data center operations management
  - **Road-mapping:** Gathered customer scenarios and requirements to inform road-map feature prioritization
  - **System Design:** Involved in feature system design (e.g., storage metadata reporting service)
  - **Data Science & Software Engineering:** Conducted statistical and analytical modeling to optimize storage system configuration, inform product management feature priority, and manage project timelines
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# EDUCATION

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- University of California at Berkeley - Master's - Data Science - expected 2022
- Rice University - Bachelor's of Science - Electrical Engineering & Applied Mathematics - 2011