

# JAVIER RODRIGUEZ

## Results-Driven Data Scientist with Business Acumen

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### SUMMARY

Results-driven data scientist with 14+ years of experience delivering measurable business impact through data-informed decision making. Consistently translate complex technical analyses into actionable business intelligence, achieving significant cost reductions and operational efficiencies across aerospace, healthcare, and defense sectors.

### EDUCATION

<b>Master in Information and Data Science</b> University of California, Berkeley	📅 08/2024
<b>Bachelor of Science in Aerospace Engineering</b> California State University, Long Beach	📅 05/2018
<b>Bachelor of Science in Neuroscience</b> University of California, Los Angeles	📅 06/2012

### EXPERIENCE

#### DATA SCIENTIST

##### Tecolote Research

- 📅 11/2022 - Present    📍 El Segundo, CA
- Delivered 35% reduction in forecast uncertainty for \$250M+ space programs by transforming complex technical datasets into actionable cost-estimating relationships
  - Decreased data processing time by 80% by developing a high-performance validation system with efficient memory management and automated workflows
  - Accelerated project completion time by 30% through the architecture of a real-time cost analysis platform that provided stakeholders with immediate visibility into budget impacts
  - Enhanced decision-making capabilities for executive teams by transforming complex technical datasets through advanced normalization and statistical analysis

#### SR SOFTWARE ENGINEER

##### Virgin Orbit

- 📅 09/2022 - 05/2023    📍 Long Beach, CA
- Achieved 15% improvement in operational efficiency by developing a unified business intelligence platform that provided executives with integrated insights across financial, manufacturing, and supply chain operations
  - Reduced application costs by 50% while maintaining system performance through optimization of cloud infrastructure and data processing pipelines, directly improving profit margins

#### SR SYSTEMS ENGINEER

##### Northrop Grumman Corporation

- 📅 11/2019 - 11/2022    📍 El Segundo, CA
- Generated \$100K in annual savings by implementing machine learning forecasting algorithms that predicted and prevented manufacturing and supplier shortages
  - Increased operational efficiency by 50% through a production monitoring dashboard with automated alerts that optimized material flow across production lines
  - Improved material tracking accuracy by 10% with a real-time supply chain analytics system using predictive modeling, reducing inventory costs and production delays
  - Enhanced quality control precision by engineering an automated inspection system utilizing computer vision to identify manufacturing anomalies before they affected end products

## EXPERIENCE

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### MACHINE LEARNING ENGINEER

#### Air Force Research Laboratory

📅 09/2018 - 11/2019 📍 WPAFB, OH

- Improved aircraft readiness by 30% through development of an AI-powered inspection system combining computer vision and robotics for automated defect detection
- Enhanced product consistency in manufacturing by supporting an end-to-end machine learning pipeline for quality control in powder bed processes

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### RESEARCH MANAGER

#### USC Keck School of Medicine/Cedars-Sinai Medical Center

📅 06/2010 - 09/2018 📍 Los Angeles, CA

- Managed a \$500K/yr research budget while leading a 7-person neuroscience team studying Alzheimer's disease, ensuring efficient resource allocation and research progress
- Increased neural cell research efficiency by 25% through systematic optimization of electroporating protocols and cell viability parameters

## SKILLS

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#### Business Value Creation

Business Intelligence, Cost Analysis, Strategic Data Interpretation

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#### Technical Implementation

Python, SQL, Machine Learning, Deep Learning, NLP

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#### Visualization & Communication

Tableau, Microsoft Power BI, Executive Reporting

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#### Continuous Learning

Prompt Engineering, AI-Assisted Development

## CERTIFICATION

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#### Certified Cost Estimator/Analyst (CCEA)

International Cost Estimating and Analysis Association

## INTERNSHIPS

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### Computer Vision Intern

#### Naval Postgraduate School

📅 05/2018 - 09/2018 📍 Monterey, CA

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### Autonomous Aerial Systems Intern

#### NASA Ames Research Center

📅 01/2018 - 05/2018 📍 Mountain View, CA

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### Robotics Intern

#### Army Research Lab

📅 05/2017 - 09/2017 📍 Los Angeles, CA

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### Human Machine Interface Intern

#### NASA Jet Propulsion Laboratory

📅 06/2016 - 12/2016 📍 Pasadena, CA