

RAMIRO BRISEÑO

CONTACT

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SKILLS

Technologies

Docker
Kubernetes
Amazon Web Services (AWS)

Libraries

Keras
Numpy
Pandas
Scikit-Learn
Tensorflow

Machine Learning

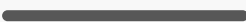
Clustering
Regression
Classification
Deep Learning
Anomaly Detection
Supervised Learning
Unsupervised Learning
Natural Language Processing

Manufacturing

CNC Machining

LANGUAGES

Python 

SQL 

EDUCATION

California Institute of Tech.
Bootcamp Machine Learning & Robotics
Univ. of Cal. Riverside
B.S. BioE
Fencing Club Co-Founder
Spanish - Native Speaker

PROFILE

Engineer with 4+ years in AI/ML (including computer vision and sensor fusion), 4+ years in engineering & manufacturing, and 3 years in construction project management. Expertise in building scalable data pipelines, real-time 3D vision systems, and hardware-software integration. Key contributions include a patented cell testing device, advanced bioreactors, and Foodie-AI – an ML application using LiDAR, MediaPipe, and Three.js to solve landmark scanning challenges in preventative health.

RELEVANT WORK EXPERIENCE

Estimator/PE/PM

Magnum Construction

2023-2026

- Managed full-cycle projects from cost estimation, PE, and PM to ensure on-time and high quality time completion.

Data Engineer/ML Eng

Freelance Projects & Independent Work

2021 - 2024

- Developed Foodie-AI, an ML-powered application for preventative medicine that analyzes dietary and health data to deliver personalized recommendations using SQL, NoSQL (MongoDB), and vector databases for efficient semantic search and retrieval-augmented generation.
- Integrated LiDAR, MediaPipe, and Three.js systems to resolve landmark scan inaccuracies, enabling precise 3D body modeling, improved pose estimation, and reliable anatomical landmark detection for accurate health metrics.
- Built scalable stream data pipelines to process unstructured datasets for ML-driven applications helping process TB of data.
- Implemented autoscaling, monitored with AWS CloudWatch, and collaborated on container security, for the purpose of scalable, and reliable systems

Data Scientist/ML Eng

6122 Media LLC

2021

- Designed and delivered a production-ready ML application for body composition analysis, achieving 95% model accuracy through hyperparameter optimization, cross-validation, and feature engineering.

Co-Founder & Engineer

Streambio - Biotech Startup

2015-2021

- Led end-to-end engineering and manufacturing of a 3D hollow-tube bioreactor system using CNC machining, 3D printing, and Arduino-based sensor integration, improving throughput and efficiency by over 10%.
- Developed real-time computer vision models for natural killer (NK) cell detection in microscopy images, enabling semi-automated classification.
- Designed and implemented closed-loop sensor feedback systems to monitor and control environmental variables (temperature, oxygen, pH).
- Holder of patent: Device for testing a sample of cells.
- Collaborated across hardware, software, biology, and business functions; prepared investor presentations and communicated technical value to non-technical stakeholders.

Hobbies

- Airsoft - strategic team coordination and decision-making under pressure
- Dirt bike rider - Risk management, and persistence in high-speed environments.
- Pilot (under training) - Attention to detail, safety and situational awareness.