

Julio Nunez

Software Engineering | Artificial Intelligence | Research
San Diego, CA

SUMMARY

AI-focused software engineer with experience shipping production ML systems at Google and Meta, spanning model fine-tuning, inference optimization, and real-time data pipelines. Background combining full-stack engineering with applied AI in healthcare, education, and research settings, including NASA-funded data infrastructure. Comfortable owning ML systems end to end — from data preprocessing to deployment and monitoring.

PROFESSIONAL EXPERIENCE

Alignerr

Data Scientist

Jul 2026 – Present

Contract, Remote

- Evaluate and label training data for LLM alignment across technical domains; contribute to quality guidelines for expert review teams.
- Assess model outputs for factual accuracy and reasoning quality, informing dataset curation for fine-tuning pipelines.

Mercor Intelligence

Freelance Software Engineer

Nov 2025 – Jul 2026

Contract, Remote

- Served as an EPM across more than five concurrent projects, leading delivery across multiple technical domains.
- Oversaw task quality assurance, on-time delivery, and expert onboarding, with responsibilities tailored per project scope.

Globant

Software Engineer

Jun 2024 – Jun 2026

Full-time | Mexico City, Mexico

- Developed reusable Angular (v2+) components, services, and directives for U.S. clients, optimizing asynchronous data handling with RxJS and reducing UI render time in high-traffic views.
- Led Android/iOS migrations with Capacitor, adapting native device features and introducing iOS 16-inspired UX improvements adopted across three client applications.
- Built banking portal forms with strengthened validation and WCAG-compliant accessibility; improved a cruise booking funnel's conversion through modular SASS/CSS refactoring.
- Refined prototypes in close collaboration with UX/Visual Design teams, coordinated delivery via Git and Scrum/Kanban, and supported internal talent evaluation as a Gatekeeper.

Meta

Full-Stack Engineer, AI Systems

Mar 2025 – Mar 2026

Contract | Remote

- Redesigned Facebook content moderation dashboard components using React, GraphQL, and Relay, improving initial load time by 40%.
- Built real-time notification systems with WebSockets and Kafka, reliably serving 2M+ users with sub-second latency.
- Led a sprint to migrate legacy Backbone.js modules to React, improving maintainability and raising test coverage to 90%.
- Authored internal technical documentation and mentored three junior interns in React best practices and performance optimization.

San Diego State University
Research Development Software Engineer

Jun 2023 – May 2025
Full-time | San Diego, CA

- Led development of medical research software and a web application deployed for use by patients and clinicians worldwide.
- Directed microbial software development and engineered data pipelines for NASA-funded research projects, improving research turnaround by 80%.
- Prototyped exploratory ML tooling for classifying research datasets, supporting hypothesis generation for two lab publications.

Google
Artificial Intelligence Engineer

Jan 2024 – Jan 2025
Contract | Mountain View, CA

- Built a multimodal AI inference pipeline with TensorFlow Serving and Kubernetes, reducing latency by 35% across 10K+ daily queries.
- Integrated a fine-tuned BERT model into Google Health's diagnostic assistant, improving symptom-to-condition mapping accuracy by 22%.
- Collaborated across teams to deploy ML models on GCP with Vertex AI, adding monitoring, canary releases, and A/B testing frameworks.
- Optimized biomedical data preprocessing with Apache Beam and Cloud Dataflow, cutting ETL pipeline time by 50%.
- Co-authored model evaluation reports with clinical stakeholders, defining accuracy benchmarks for future diagnostic releases.

UC San Diego
Education Researcher

Jun 2023 – Jul 2023
Contract | San Diego, CA

- Led development of a mobile application for UCSD CREATE and contributed to multiple educational software initiatives supporting active learning research.

SELECTED PROJECTS

Clinical Notes Summarizer
Python, BART, Hugging Face, FastAPI, GCP

Personal Project
2025

- Fine-tuned a BART model for abstractive summarization of medical transcripts; deployed behind a FastAPI service with containerized inference on GCP.

Real-Time Sentiment Dashboard
Kafka, Spark Streaming, React, scikit-learn

Personal Project
2024

- Built an end-to-end streaming pipeline classifying live social media sentiment at 1K+ messages/sec, with model-drift monitoring and a React dashboard.

EDUCATION

San Diego State University
Bachelor of Science in Computer Science

Aug 2020 – Mar 2024
San Diego, CA

- Relevant coursework: Machine Learning, Data Structures & Algorithms, Linear Algebra, Database Systems, Artificial Intelligence.

TECHNICAL SKILLS

- **AI/ML:** TensorFlow Serving, BERT, Hugging Face Transformers, scikit-learn, model fine-tuning, evaluation & monitoring, Vertex AI.

- **Data Engineering:** Kafka, Apache Beam, Cloud Dataflow, Spark, ETL pipeline design, streaming architectures.
- **Development:** Python, JavaScript, React, Angular, RxJS, GraphQL, Relay, WebSockets, FastAPI, SASS/CSS.
- **Practices:** Git, Scrum, Kanban, A/B testing, canary deployments, technical documentation, mentoring.