

Jordan Ayala

AI Senior Engineer

Asunción, Paraguay | [LinkedIn](#)

AI engineer with 10+ years building conversational AI agents, mobile applications, and scalable backend systems across fintech, logistics, and e-commerce.

EXPERIENCE

AI Software Engineer

Jun 2024 — Present

Saywise

Los Angeles, CA

Leading development of conversational AI agents using machine learning and natural language processing. Built live event and streaming processing systems, integrating OpenAI, ElevenLabs, and Deepgram APIs. Architected scalable infrastructure handling high-volume interactions with low latency.

Technical Lead

Feb 2022 — Mar 2024

BairesDev

San Francisco, California, United States

Led a team of 10 engineers building a warehouse operations platform. Consolidated multiple data sources to Google BigQuery, reducing response times by 60%. Built real-time streaming applications with Kafka integrating microservices and warehouse providers.

Senior Mobile Engineer

Apr 2021 — Feb 2022

Voice

United States

Built an NFT marketplace application on the EOS blockchain serving thousands of customers. Developed JWT-based authentication infrastructure and led KYC service integration, significantly reducing bot accounts and improving user verification.

Machine Learning Consultant

Jun 2020 — Jan 2022

Consejo Nacional de Ciencia y Tecnología-CONACYT

Asunción, Paraguay

Provided guidance on research project grants and ML applications. Contributed to development of a diagnostic platform for early detection of diabetic retinopathy, working with a team of specialists.

Data Scientist

Jun 2020 — Sep 2021

Universidad Americana Paraguay

Asunción, Paraguay

Contributed to the creation of a platform to assist a team of experts in the early diagnosis of diabetic retinopathy (Keras, Python, NextJS).

- Led the research multiple state-of-the-art algorithms for object detection and designed experiments to train and validate machine learning models.
- Built a machine learning classification model with eye fundus images.
- Built a REST API to provide diabetic retinopathy detection (Python, FastAPI, Keras).
- Developed a web platform to acquire patients images and provide classification (NextJS, Typescript, Tailwind).

Android Team Lead

Sep 2019 — Mar 2021

SweatWorks

Washington, United States

Led a team of Android and QA engineers building and launching a fitness application. Mentored engineers on performance optimization and architecture best practices.

Lead Mobile Engineer

Mar 2019 — Feb 2022

Luke's Local

San Francisco Bay Area

Led development of an iOS and Android food ordering application, improving user experience and operational efficiency. Integrated Firebase and Mixpanel analytics for data-driven improvements. Designed and launched a referral program that drove user engagement and growth.

Mobile Consultant

Apr 2018 — Aug 2019

International Committee of the Red Cross - ICRC

Switzerland

Led the development of a privacy focused VPN application for a NPO (React Native, Typescript).

- Created a cross-platform native middleware implementing the Wireguard VPN Protocol (Go, Rust).
- Developed Native Android (Java) and iOS (Swift) apps.
- Built a cross-platform App in React Native, interacting with the Native VPN Middleware (Rust).

IT Consultant

Dec 2016 — Jan 2018

Konecta S.A.

Paraguay

- Developed integrations for a AS/400 mainframe, integrating RPG codebase with modern Java solutions.

Full Stack Developer

Feb 2015 — Nov 2016

Multisoft

Paraguay

- Developed a Location-Aware Android Application for Logistics and Tracking.
- Led the migration of a Legacy Management Reporting System (PowerBuilder) to modern Web App (Django, Express,

JQuery).

- Server administration of multiple Linux Servers (CentOS).

Researcher

NIDTEC

Dec 2014 — Feb 2015

Paraguay

I worked on multiple projects based on Digital Image Processing.

- Worked on a Digital Image Processing System (Java EE) and implemented multiple morphological transformations with ImageJ.
- Developed a System for Early Detection of Skin Cancer using Digital Image Processing (Java, ImageJ).

EDUCATION

freeCodeCamp

Jan 2016 — Jan 2017

Full Stack Web Development Certification in Computer Software Engineering

Universidad Nacional de Asunción

Sep 2012 — Jun 2016

Engineer's degree in Computer Software Engineering

- Received Full Tuition Scholarship for academic merit.
- Thesis on intelligent stock market trading systems was published on a major scientific journal.

PROJECTS

Stock market index prediction, Technical Analysis Strategy Optimization Using Machine Learning

Researched and published a machine learning approach for optimizing technical analysis strategies in stock market indices. Work demonstrated the application of ML techniques to financial markets.

CERTIFICATIONS

Convolutional Neural Networks, Coursera

Jan 2021

Structuring Machine Learning Projects, Coursera

Dec 2020

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Coursera Dec 2020

Neural Networks and Deep Learning, Coursera

Dec 2020

Intro to Python for Data Science, DataCamp

Examination for the Certificate of Competency in English (ECCE), Cambridge Michigan

Multiclass Diabetic Retinopathy Classification of Eye Fundus Images Small Datasets Performance Improvement – A Neuroevolution Approach,

Technical analysis strategy optimization using a machine learning approach in stock market indices,

Dataset from fundus images for the study of diabetic retinopathy,

SKILLS

Artificial Intelligence (AI) · Live Video Streaming · Software Architecture · Software Development · Payments · Remote Work · Data Structures · E-Commerce · Streaming Media · TypeScript · Analytics · Technology Leadership · Technical Staff Management · Apache Kafka · Stock Market Analysis · iOS Development · Android Development · Data Analysis · Business Intelligence · Machine Learning · OpenAI API · Amazon Web Services (AWS) · Analytical Skills · HTML5 · Docker · TensorFlow · Python (Programming Language) · Next.js · Keras · Rust (Programming Language) · NestJS · Google BigQuery · GraphQL · Blockchain · Spring Framework · Swift · Java · JavaScript · Node.js · Python · HTML · SQL · Prompt Engineering · AI Agents · Strategic Planning · Warehouse Logistics · Stakeholder Communication · Scrum · Kotlin · Shopify · GCP · React Native · React · MySQL · NoSQL