

# Jordan Ayala

Tech Lead building AI agents

Asunción, Paraguay | [LinkedIn](#)

I'm an AI Software Engineer building the next generation of conversational AI systems. With 10+ years of experience, I've led teams in developing AI solutions that span healthcare diagnostics, warehouse automation, and real-time streaming. Currently at Saywise, I'm working with cutting-edge technologies like OpenAI and ElevenLabs to create AI agents that can understand and respond to complex human interactions in real-time.

## EXPERIENCE

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### AI Software Engineer

Saywise

Jun 2024 — Present

*Los Angeles, California, United States*

- Leading development of advanced conversational AI agents using cutting-edge machine learning and natural language processing technologies
- Built live event and streaming processing initiatives, optimizing real-time video interactions for enhanced user engagement
- Integrated state-of-the-art AI technologies including OpenAI, ElevenLabs, and Deepgram to improve AI processing capabilities and response quality
- Architected scalable AI infrastructure to handle high-volume conversational interactions with low latency

### Technical Lead

BairesDev

Feb 2022 — Mar 2024

*San Francisco, California, United States*

- Led a team of 10 talented engineers in building a platform that handles the operation of several warehouses across the US (Kotlin, NestJs, Typescript, Javascript, React).
- Consolidated multiple data sources to Google Big Query Platform allowing efficient analytical and operational reporting, leading to a 60% reduction in response times.
  - Built real-time streaming applications (Kafka, Kotlin) that integrated various microservices and multiple warehouse providers, ensuring seamless operational functionality and efficiency.
  - Mentored a team of engineers, providing guidance and expertise in software architecture enhancement and optimization.

### Senior Mobile Engineer

Voice

Apr 2021 — Jan 2022

*United States*

- Built the application for an NFT marketplace that is carbon neutral, easy to use on the EOS blockchain serving over 10,000 customers (Android, Kotlin, MVVM, OOP).
- Led the development the authentication infrastructure.
  - Led the integration of KYC services, significantly reducing the number of bot accounts.
  - Designed and implemented the NFT multimedia viewer.

### Data Scientist

Consejo Nacional de Ciencia y Tecnología-CONACYT

Jan 2021 — Jan 2022

*Paraguay*

- Contributed in the development of a machine learning platform that creates healthy recipes (Keras, Python, NextJS).
- Analyzed the molecular structure and macronutritional values of ingredients.
  - Development of a web application to create target recipes and obtain healthy alternatives.

### Data Scientist

Universidad Americana Paraguay

Jun 2020 — Sep 2021

*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

SweatWorks

Sep 2019 — Mar 2021

*Washington, United States*

- Led a team of Android and QA Engineers in building and launching a fitness app offering on-demand workout classes like cycling, yoga, and strength training (Android, Kotlin).
- Built integrations with Bluetooth powered devices to track the workout performance of users.
  - Integrated multiple streaming platforms to improve the user experience during workouts. (Mux, FeedFM)
  - Built a Proof of concept App for Android TV.
  - Mentored engineers on how to improve app performance and architecture.

### Lead Mobile Engineer

Luke's Local

Mar 2019 — Feb 2022

*San Francisco Bay Area*

- Led the development of an online food ordering application (iOS & Android) focusing on enhancing user experience and operational efficiency (React Native, Typescript, Redux).

- Integrated advanced analytics into the application, enabling data-driven strategies to track and improve user satisfaction using Firebase and Mixpanel.
- Led the development of a successful referral program that encouraged user engagement and growth.
- Innovated by designing and implementing a companion application to efficiently track inbound supplies, streamlining the supply chain process.
- Refactored the application architecture, resulting in significantly improved performance and reduced loading times, enhancing customer satisfaction.
- Automated the deployment pipeline, ensuring continuous and seamless delivery of application updates, maintaining high standards of quality and reliability.

### 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

Dec 2014 — Feb 2015

NIDTEC

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

Jan 2012 — Jan 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.

## 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

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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