



Juan Patricio Marroquin Gavelan

Senior Full-Stack Developer & AI Engineer

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Education

Master in Artificial Intelligence

Georgia Institute of Technology
2024 – 2026 | Atlanta, GA, USA

Bachelor in Software Engineering

San Marcos Major National University
2017 – 2022 | Lima, Peru

Specialization in Big Data Analytics

Deusto University
2022 | Bilbao, Spain

Diploma in Global Business Management

University of Rosario
2022 | Bogota, Colombia

Specialization in Computer Science

Autonomous University of Mexico
2021 | Mexico City, Mexico

Specialization in Leadership and Soft Skills

Harvard University
2019 | Boston, MA, USA

Specialization in 5G, Cloud, Big Data & Artificial Intelligence

Huawei University
2019 | Shenzhen, China

Description

I'm a 26-year-old Senior Full-Stack Software Developer & AI Engineer based in Lima, Peru, specializing in AI-powered applications and scalable web systems.

With 10+ years of experience across React, Node.js, Python, Web3, and AI, I've built production software for startups and big companies, focused on reliability and performance.

B.S. in Software Engineering (top 3 in class), San Marcos Major National University. M.S. in Artificial Intelligence, Georgia Tech, focused on machine learning and conversational agents.

Experience (Last 5 - more on portfolio)

Full-Stack AI Engineer

Neo Sophia

10/2025 – 12/2025 | Atlanta, GA

- Built a phone-accessible conversational AI system (voice/SMS/web chat) to help U.S. parents of neurodivergent children discover resources and screening support.
- Implemented location-aware search with **PostgreSQL + PostGIS** and added **Redis caching**, reducing API costs by ~60% while keeping common requests sub-second.
- Designed multi-turn dialog flows using **state machines** (clarifications, fallbacks, edge cases) and deployed serverless infrastructure on **AWS (Lambda, API Gateway)** with WebSockets.
- Shipped the landing experience in **Next.js/React/Tailwind** and production endpoints in **TypeScript + Node.js (Fastify)** with CI/CD via **GitHub Actions**.

Full-Stack AI Engineer

Pine Venture Studio

10/2024 – 10/2025 | Toronto, CA

- Shipped two production AI products: **Formation** (LLC formation + compliance) and **Everbook** (personalized illustrated books), serving thousands of users.

Skills

Advanced Level

TypeScript, ReactJS, NextJS, JavaScript, PHP, Laravel, SQL, PostgreSQL, TailwindCSS, HTML & CSS

Proficient Level

AWS, GCP, Vercel, Python & Java

Intermediate Level

Solidity, NestJS, React Native, Livewire, GraphQL, MongoDB, R, Twilio & Docker

Basic Level

Jenkins, Azure, R & C++

Languages

English

C2, TOEFL (2024): 101

Spanish

Native

French

B2

Portuguese

B1

Italian

A2

Chinese

A1

Soft Skills

- Ownership
- Leadership
- Teamwork
- Responsibility
- Resilience
- Communication
- Conflict Resolution

- Formation: built a multi-step onboarding flow and AI document pipeline using **OpenAI + Puppeteer**, processing **500+ formations** in the first 6 months and cutting formation time from ~15 minutes to ~3 minutes.
- Implemented payments and subscriptions with **Stripe**, plus an admin dashboard using **React + Redux Toolkit + React Query** over **PostgreSQL/Prisma**.
- Orchestrated async workloads with **AWS Lambda + SQS** and delivered a multilingual experience (6+ languages) using **Next.js i18n**.

Full-Stack Web3 Developer

Ardent HQ [🔗](#)

10/2023 – 10/2024 | Manchester, NH

- Built and maintained core ARK ecosystem products (ARKVault, ARKWallet extension, Dashbrd, ARKConnect) in **TypeScript + React + Tailwind**.
- Refactored CI/CD and testing to reduce deployment time by ~30%, and centralized transaction logic into reusable hooks, reducing duplication by ~40%.
- Delivered **400+ unit tests** with **Vitest + React Testing Library** and shipped 200+ features across wallet flows (profiles, transactions, network selection, dark mode).
- Implemented secure signing/approval flows including **Ledger** hardware wallet support and safe dApp connectivity patterns.

Full-Stack Web3 Developer

Divvy (DeFi Ventures Inc.) [🔗](#)

12/2022 – 09/2023 | New York, NY

- Led a full frontend modernization for a Solana betting platform, moving to **TypeScript, Next.js, Redux, React Query, Tailwind**.
- Refactored the frontend end-to-end, reducing repo size by ~40% and improving deployment time by ~20%.
- Built real-time blockchain integrations for bet placement and settlement, plus core product features (account, profile, security controls).
- Reduced security risk by ~70% through dependency upgrades and hardening across the app surface.

Senior Frontend Developer

Turn Technologies [🔗](#)

12/2021 – 12/2022 | Chicago, IL

- Led a 6-person frontend team through modernization across 4 platforms, standardizing on **TypeScript, Next.js, Tailwind, GraphQL/Apollo**.
- Built the company's third product (**Advise**) from scratch, improving talent acquisition prediction accuracy by ~30%.
- Delivered analytics dashboards for recruitment pipeline insights and performance tracking.
- Increased test coverage by ~80% using **Jest + React Testing Library**, catching critical issues before production.

 **Awards****UNMSM iTalent Winner**

San Marcos Major National University

2020

Recognition by the President of the Republic of Peru

Government of Peru

2019

Recognition by the Peruvian Congress

Congress of Peru

2019

Student Leader for the 21st Century

Laspau & Harvard University

2019

Huawei's Seeds for the Future

Huawei

2019

 **Publications****Quality Assessment Model Based on ISO/IEC 25010 for E-Learning Platforms in the Cloud and Based on Laravel**

IEEE CICN

2023

NEKO: Proposal of the First Super-Agile Methodology to Improve Work Efficiency

IEEE ICCI

2022

Five-Layer Architecture Proposal using AWS Services and Applied for Cloud E-learning Platforms based on Laravel

UNMSM

2020