



# Juan Patricio Marroquin Gavelan

## Senior Full-Stack Developer & AI Engineer

✉ [juan@patriciomarroquin.dev](mailto:juan@patriciomarroquin.dev) ☎ +51 915 089 778 📍 LIMA, PERU 📅 1999-12-03

🔗 <https://www.patriciomarroquin.dev> 🔄 <https://github.com/patricio0312rev>

🌐 <https://www.linkedin.com/in/patricio0312rev> 🗣️ <https://blog.patriciomarroquin.dev>

### 🎓 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