

Jeremy Aldama Giraldo

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Professional Profile

Software Engineer with 4+ years of experience delivering scalable solutions across mobile, web, desktop, and cloud environments. Experienced collaborating with multicultural teams from Asia, Europe, and the U.S., designing and building products for industries such as banking, education, government, manufacturing, and technology. Passionate about creating reliable, high-quality software and driving impact through clean architecture, automation, and user-focused design.

Technical Skills

Languages: TypeScript, JavaScript, Go, Python, C#, Java

Backend: Node.js, NestJS, Express, .NET Core, Django

Frontend: React, React Native, Next.js, TailwindCSS

Cloud & DevOps: AWS, Huawei Cloud, Kubernetes, Docker, Terraform, GitHub Actions

Databases: PostgreSQL, MySQL, Redis, MongoDB, SQL Server

Messaging: Apache Kafka, AWS SQS, Socket.IO

Testing & Tools: Jest, Postman, Git (Gitflow), SonarQube

Methodologies: Agile (Scrum), Clean Architecture, SOLID, Hexagonal Architecture, CI/CD

Professional Experience

Informa srl

March 2025 – Present

Software Developer Senior

- Migrated monolithic backends to a plugin-based architecture with dependency injection and API Controller + Service Layer pattern in .NET 8, improving modularity across multiple client deployments.
- Developed WinForms screens, Razor Pages web views, and backend web services with SQL query logic; migrated legacy VB6 applications to VB.NET.
- Championed SonarQube adoption to reduce technical debt; managed releases and coordinated tasks via Azure DevOps.

Huawei

Nov 2024 – Nov 2025

Cloud Solutions Architect

- Designed cloud architectures for clients across banking, healthcare, education, and technology sectors, deploying Kubernetes clusters, RDS databases, security policies, and backup strategies.
- Migrated applications from on-premise, AWS, and Azure to Huawei Cloud; containerized services into Kubernetes and automated infrastructure provisioning with Terraform.
- Delivered technical workshops and Generative AI demos for partners and clients on cloud infrastructure, networking, security, and AI services.

Tucambista

Sept 2024 – Dec 2024

Backend Engineer Ssr

- Engineered high-performance backend microservices for SUNAT reporting and identity verification in a financial services platform, reducing compliance processing time and improving throughput.
- Designed a Host-to-Host integration module for mass-payment operations with BCP and Interbank, reducing transaction processing time by over 70%.
- Applied Clean Architecture and SOLID principles to the core accounting system, delivering scalable REST APIs with PostgreSQL.

PUCP

May 2023 – Nov 2024

Full-Stack Developer Jr

Oct 2023 – Nov 2024

- Led the full-stack development of a student tutoring platform using Next.js (React, TailwindCSS) and NestJS (TypeORM), deploying on AWS RDS with CI/CD via GitHub Actions.
- Built web scraping and data extraction services with Django; designed dashboards for stakeholders to visualize key academic insights.

Full-Stack Developer Trainee

May 2023 – Oct 2023

- Designed landing pages for Idiomas PUCP, increasing course enrolments by 18% through UX improvements.
- Built web scraping services with Django to extract campus data, supporting internal reporting and decision-making.

Projects

WhatsApp AI Chatbot Platform

2024 – Present

- Architected a multi-tenant AI chatbot platform (NestJS, PostgreSQL, Redis, OpenAI API) with hexagonal architecture; deployed for 2 live clients across different business verticals.
- Built AI orchestration with function calling, hallucination detection, and response sanitization; integrated WhatsApp Cloud API with webhook HMAC validation and real-time messaging via Socket.IO + Redis pub/sub.
- Implemented tenant-scoped data access (BaseTenantRepository), JWT auth with role-based access control, and unit/integration tests with Jest.

LendApp – Loan Management App

April 2022 – Present

- Architected a cross-platform React Native loan management app (2,000+ users) with Redux state management; automated testing with Jest, React Native Testing Library, and Detox E2E.
- Managed production deployment to Google Play Store; integrated AWS SES for transactional emails and real-time notifications.

Education

B.Sc. in Computer Science

Pontificia Universidad Catolica del Peru

Relevant Courses: Software Engineering, Software Architecture, Mobile Development.

Languages

Spanish (Native) • English (Advanced C1) • Mandarin Chinese (Basic)