

# Marcos Blandón

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## Professional Summary

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Senior Software Engineer with 12+ years designing and delivering ERP systems, enterprise integrations and mobile applications across retail, logistics and field services. Led the end-to-end implementation of Boomerang, an ERPNext/Frappe-based ERP serving 400+ users on AWS ECS, and built a Python rules engine cutting payroll processing from 90 to 12 hours monthly. Hands-on experience in REST/SOA architecture, cloud-native AWS infrastructure and cross-platform mobile development with a consistent track record of replacing manual processes with scalable, high-impact systems. Full Australian working rights.

## Professional Experience

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**United Lifts Services** | Melbourne, AU

**Senior Software Engineer** 09/2020 – Present

- Designed the infrastructure and led implementation of **Boomerang**, United Lifts' in-house ERP built on ERPNext and Frappe Framework — delivering core modules (payroll, HR, procurement, finance) and operational modules (construction project management, callouts, repairs, maintenance and quality assurance) for 400+ users, deployed on AWS ECS with CloudFront for media storage.
- Migrated paper-based timekeeping into the in-house ERP system, reducing payroll processing from 90 hours to 12 hours monthly — an 87% reduction in processing time for a workforce of 200+ field employees.
- Designed and built a configurable rules engine in Python library to automate calculation of working hours, allowances, penalties and leave entitlements per Fairwork awards and enterprise bargaining agreements — reducing payroll error rate by 75% compared to prior manual processing.
- Architected and delivered a cross-platform iOS/Android mobile application using Ionic and Capacitor, serving 200+ field technicians, managers and supervisors with real-time operations features including job dispatch, time tracking and service reporting.
- Integrated the ERP procurement module with key supplier APIs to digitise material requests and purchase orders — eliminating 70% of manual PO entry and enabling mobile access for field staff.

**SYWORK S.A.S** | Bogotá, CO

**Senior Software Engineer — Oracle Gold Partner (JD Edwards & SAP)** 06/2010 – 07/2020

- Designed and built a Java library that exposed **JD Edwards EnterpriseOne** business functions (native C/DLL interfaces) as REST APIs — reducing integration development effort by ~90% and enabling modern web and mobile clients to interoperate with the ERP across multiple client implementations.
- Led enterprise system integrations across 5+ ERP implementation projects using **Oracle SOA Suite**, connecting JD Edwards and **SAP** environments with third-party logistics, payment and procurement systems via SOA and REST architecture.
- Built an internal cross-platform mobile development framework providing reusable modules for inventory, maintenance, asset management and timesheet tracking — accelerating delivery of 4+ enterprise mobile applications across client projects.
- Designed and developed a Java application integrating JD Edwards via the **IoT Orchestrator** to automate **RFID** portal control for Andes Petroleum (Ecuador) — reducing asset movement registration across an oil extraction facility from 20 minutes to 2 minutes per inspection (90% reduction).
- Established and led the software products division as an independent business unit, owning the full delivery lifecycle across internal product lines and growing the team's capability from project delivery to product ownership.

**IOSYS S.A.S** | Bogotá, CO

**Co-Founder & Software Engineer** 03/2006 – 10/2010

- Led design and delivery of SENA Móvil, the official mobile application for Colombia's national vocational education platform — reaching 2M+ users and providing mobile access to courses, lessons and certification tracking across the country.
- Developed an SSO plugin for **Blackboard LMS** integrating Microsoft Active Directory and Oracle Internet Directory authentication — enabling 6+ educational institutions in Colombia to connect their existing user directories to the platform without manual account migration.
- Built a Bluetooth-based proximity marketing platform capable of automatically distributing multimedia content to nearby devices — deployed across retail and events clients in Colombia.
- Co-founded and led a mobile and wireless software company, growing it from inception to delivering enterprise-scale products serving millions of users across education, retail and marketing sectors.

## Personal Projects

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**Reglas** — [github.com/marcosblandondev/reglas](https://github.com/marcosblandondev/reglas)

A lightweight, expression-based business rules engine for Python. Designed to be embedded in any project that requires managing complex, dynamic business logic in a clean and controllable way.

**EBA Parser** — [github.com/marcosblandondev/eba-parser](https://github.com/marcosblandondev/eba-parser)

A web application that automates extraction of payroll rules from Enterprise Bargaining Agreements and Modern Awards using LLMs. Payroll officers upload a PDF and the system extracts structured payroll rules ready for import — eliminating manual clause interpretation and data entry.

## Core Competencies

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**Languages:** Python (primary), TypeScript/JavaScript, Java

**Frameworks:** Django, FastAPI, React, React Native, Ionic, Spring, Oracle ADF

**Cloud & DevOps:** AWS (primary), Google Cloud, Oracle Cloud, GitHub Actions, CI/CD pipelines

**Databases:** PostgreSQL, Oracle

**ERP & Integration:** SAP, JD Edwards, Oracle SOA Suite, REST/SOA architecture

**AI/LLM:** RAG pipelines, LLM application development, workflow automation

**Other:** Firebase Messaging, IoT Orchestrator, RFID systems

## Education

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**Graduate Diploma of Management (Learning)** — Danford College, Melbourne 10/2025

**Bachelor of Electronic Engineering** — Los Libertadores University, Bogotá 11/2005

**Technologist of Computer Network Administration** — SENA, Bogotá 04/2008

*References available on request • Available for relocation*