

OSCAR CALDEIRA VIEIRA

SOFTWARE ENGINEERING LEADER | BACKEND ARCHITECT | AI SYSTEMS

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Software engineering leader with 20+ years of experience across backend architecture, technical management, systems integration, cloud delivery and AI-enabled products.

Former Technical Manager at ReferWell and Technical Lead with CTO-level responsibilities at Qhali. Currently working as a hands-on Backend Engineer at ACIN, modernizing production-critical platforms and complex legacy systems.

Experienced in leading multidisciplinary teams, defining software architecture, improving engineering processes and delivering regulated HealthTech platforms under HIPAA and HITRUST requirements.

Experience

Senior Software Engineer

ACIN / I-parque | Remote | Jul 2025 – Present

- Maintain and modernize backend services for municipal parking and enforcement platforms, focusing on reliability, performance and PHP 8.x compatibility.
- Design and implement REST APIs, background jobs, permission systems, payment workflows and integrations across legacy and modern components.
- Diagnose production incidents and improve logging, automated testing and deployment safety in collaboration with product, QA and infrastructure teams.
- Contribute to technical decisions, code reviews and modernization initiatives while remaining

Technical Manager

Zeal Tech LLC / Referwell | Lima, Peru / Remote | Jun 2022 – Apr 2024

- Stabilized the Referwell platform through technical optimizations, significantly reducing bottlenecks in critical processes and improving system performance.
- Spearheaded platform certification under HIPAA and HITRUST standards, ensuring adherence to the highest security and compliance measures.
- Implemented integrations with healthcare interoperability protocols (FHIR and HL7) to enhance system communication and data exchange.
- Led the technical management of Referwell integrations, connecting with key healthcare providers such as Athena Health, ZocDoc, and Kno2.
- Coordinated multi-vendor integration projects, ensuring seamless interoperability across diverse platforms while maintaining strict HIPAA compliance.
- Orchestrated agile team methodologies, including SCRUM, to boost operational efficiency and consistently meet delivery milestones.

Founding Member and Technical Lead

Zeal Tech LLC / Qhali | Lima, Peru | Feb 2024 – May 2025

- Defined and analyzed technical requirements for a healthcare platform from conceptualization through to deployment.

- Managed and coordinated a multidisciplinary team of engineers and AI specialists, promoting collaboration and innovation.
- Designed and implemented interaction flows utilizing Large Language Models (LLMs) such as GPT-4 and customized models hosted on Azure AI.
- Established a DevOps approach using Azure, optimizing CI/CD pipelines and enhancing automation across development workflows.
- Created a scalable, secure ecosystem for managing sensitive medical data, leveraging data vectorization and historical diagnosis analysis.

Full Stack Developer / Tech Lead

E-managing Solutions | Remote | Jun 2016 – Jun 2021

- Engineered and developed customized CRM systems for clients in the real estate and financial industries, tailoring solutions to specific business needs.
- Led projects that integrated communication platforms, including Twilio and Facebook SDK, significantly improving client interaction capabilities.
- Implemented rigorous unit testing strategies to ensure robust, scalable, and reliable software solutions, achieving high system uptime and performance.

Software Developer / Tech Lead

XCS Professional Services | Caracas, Venezuela | 2010 – 2016

- Convertec de Venezuela - Company Portal: Orchestrated the creative design and implementation of a corporate portal using WordPress, resulting in improved corporate communication and online presence.
- SISGERET V1: Designed and developed a comprehensive tax withholding and billing management system, streamlining financial operations for clients.
- Social Popups: Created an innovative app for direct marketing via social media, incorporating real-time notifications of offers, significantly increasing user engagement.
- Leads Scrubbed App: Engineered a system for refining potential client lists and cold call processes, improving the efficiency of the sales pipeline.
- GoonWebinar: Oversaw the maintenance and module development for a webinar platform, integrating WebRTC and PayPal API for a seamless user experience.

Backend Developer / Team Lead

Sistemas Webconsult | Caracas, Venezuela | 2005 – 2009

- RETS: Managed and developed modules for a contractor management system used by PDVSA, ensuring high performance and system reliability.
- SISCON V2: Led the development of an online congress and events management system, delivering a user-friendly platform for event organizers.
- SISCONET: Designed and implemented a versatile tool for congress and event management, streamlining event planning and execution.
- SISCOL: Functioned as a Full Stack Developer for an administrative system, enhancing the generation and management of collective contracts.
- Educa3.0: Innovated an augmented reality teaching system for natural sciences, designing user interfaces and programming immersive experiences.

EDUCATION & CERTIFICATIONS

Bachelor's Degree - Systems Engineer

Universidad Nacional Experimental de las Fuerzas Armadas (UNEFA) | Caracas, Venezuela |

Jul 2010 – Jul 2015 - Graduated with Honors.

Certification - Web Application Development
IBM Advance Career Development | Caracas, Venezuela | Feb 2005 – Apr 2006

Specialization - Electronics
Universidad Simón Bolívar | La Guaira, Venezuela | Jul 2001 – Aug 2004

SELECTED CERTIFICATIONS & RECOGNITIONS

TOP TECHNICAL DISTINCTIONS

- Top 10% AI (Artificial Intelligence) Coder – Credmark, May 2025
- Top 10% TypeScript Programming Coder – Credmark, May 2025

GENERATIVE AI & AGENTS (HIGH IMPACT)

- IBM AI Product Manager Professional Certificate. May 2025
- IBM AI Developer Professional Certificate. Apr 2025
- Generative AI for Software Developers. Apr 2025
- Building AI Agents / RAG with MongoDB. Jun 2024
- Google Vertex AI o Responsible AI. Apr 2025
- Scrum Oct 2021

TECHNICAL SKILLS

AI & MACHINE LEARNING

- Models & Platforms: OpenAI, Google Gemini, Anthropic Claude, Google Vertex AI, Azure AI.
- Architectures & Frameworks: Generative AI (GenAI), RAG Architectures, AI Agents, LangGraph, Vector Databases.
- Specialized: Real-time Transcription, Prompt Engineering, AI Dev Tools implementation.

ENGINEERING & ARCHITECTURE

- Programming: TypeScript, JavaScript (Node.js/NestJS), Python (Django/FastAPI), PHP (Laravel).
- Interoperability & Data: FHIR, HL7, RESTful APIs, SOAP, Real-time Data Processing.
- Databases: MongoDB, PostgreSQL, MySQL, Elasticsearch.

CLOUD & INFRASTRUCTURE

- Platforms: Microsoft Azure, AWS (Amazon Web Services).

- DevOps: Docker, CI/CD Pipelines (Azure DevOps, GitHub Actions), Serverless Architecture.
- Monitoring: Datadog, Sentry.

TECHNICAL PRODUCT MANAGEMENT

- Methodologies: Agile, SCRUM, Kanban, Lean.
- Product Strategy: Initial Product Strategy & Plan, Stakeholder Collaboration, Quality Assurance, UX/UI (Adobe XD, Sketch).

SOFT SKILLS

- Leadership: Multidisciplinary Team Management, Mentoring & Coaching, Cross-Cultural Collaboration.
- Strategy: Results Orientation, Process Improvement & Risk Management, Problem-Solving.

LANGUAGES

- Spanish: Native | English: Professional/Conversational | Portuguese: Professional/Conversational