Oscar Bahamonde

Data Architect & Software Engineer



Lima/Peru



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https://github.com/bahamondex

Summary

Senior Data and Software Engineer with 10+ years of experience across telecom, AI, and data infrastructure. Specialized in building scalable data platforms, AI-native backends, and real-time intelligent applications. Proven track record of migrating legacy systems, developing open-source AI infrastructure, and leading cross-functional teams through agile transformation.

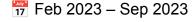
Work Experience

Globant — Senior Data Engineer

57 Sep 2023 – Dec 2024

- Designed and developed a Data Development Framework with automatic onboarding.
- Built an OpenAl Replica using open-source LLMs for internal RAG-enhanced chatbot systems.

Pronti Al — Backend Engineer



- Migrated Flask MVP to a Kubernetes-based production stack: FastAPI, Celery, RabbitMQ, Milvus, Firebase.

- Optimized image embedding pipelines for fashion-based AI recommendations.

Bluetab (IBM Company) — Data Developer

- 77 Jan 2022 Jul 2022
- Built Spark jobs with PCI compliance using PySpark.
- Ensured accurate financial compliance reporting pipelines for banking clients.

Indra — Big Data Developer

- 77 Mar 2021 Dec 2021
- Created Datamart frameworks on AWS RedShift, Athena, and S3.
- Developed automation workflows and batch pipelines for financial institutions.

Telefónica Perú — Presales Engineer

- Jul 2017 Oct 2020
- Led B2B proposals integrating Cisco, Fortinet, and Audiocodes solutions.
- Introduced agile workflows (Scrumban + Salesforce) that reduced project delivery time.

COTENER — Account Manager

- 77 Jan 2017 Jul 2017
- Managed B2B client portfolio and JDSU/VIAVI solution offerings.

Huawei — Service Sales Engineer

- ¹⁷ Jan 2014 Oct 2016
- Bid Manager for turnkey projects.
- Led POCs and collaborated with engineering teams for Telco solutions.

OSC Top Solutions Group — NOC Engineer

- To Dec 2012 Jun 2013
- L1 support, drive testing, and workflow coordination for 3G mobile networks.

Telefónica Perú — Telecom Trainee

77 Feb 2011 – Dec 2011

- Maintained LAMP Stack app for internal reporting.
- Integrated Excel with MySQL for automated KPIs.

Education

- Pontificia Universidad Católica del Perú

Grado en Ingeniería, Ingeniería de Telecomunicaciones

¹⁷ 2006 – 2012

- INICTEL-UNI

Diplomado en Gestión de Proyectos TIC (PMI®)

- Colegio Pre-Universitario PAMER

High School, Ciencias

¹⁷ 2004 – 2006

- Colegio Salesiano Don Bosco

Elementary School

17 1997 – 2004

Projects

Quipubase

Al-native real-time database with JSONSchema + pub/sub + vector search.

Lucidata

Visual analytics and database manager for modern workflows.

YouTube Transcriber

Real-time transcript and AI summarization tool using AssemblyAI.

PAccomplishments

National Top Scorer – PUCP Admission Exam

Ranked 1st place nationwide out of over 4,000 applicants in the entrance exam for the Pontificia Universidad Católica del Perú (PUCP), scoring 86/100. This result reflects not only academic excellence but a capacity for competitive performance under pressure.

🧠 Hackathon Winner – AWS-Backed National Event

Led a randomly assigned team of three to first place among 50+ teams in a national AWS-sponsored hackathon in Peru. I assumed the role of Cloud Architect, designing a scalable infrastructure while collaborating with a Data Engineer and a DevOps Engineer. Our project outperformed seasoned and pre-formed teams in both technical innovation and implementation.

- Salesforce Workflow Automation at Telefónica

Replaced siloed Excel/email-based deployment process with agile, automated management system in Salesforce using Scrumban and Design Thinking. Resulted in improved innovation **speed** and reduced communication errors.

💡 Founder – Hybrid Database Bridging SQL, NoSQL & Vectors

Designed and developed a unified database engine that seamlessly integrates relational (SQL), document (NoSQL), and vector data models. Built with FastAPI, deployed on Google Cloud Run, and equipped with schema-first APIs and real-time query capabilities. Currently preparing for launch as a **SaaS startup**, with plans to apply to Y Combinator.

Tech Skills

- Languages: Python, TypeScript, Bash, SQL

- Data & Backend: FastAPI, PySpark, Airflow, Celery, Milvus, RabbitMQ, PostgreSQL
- AI/LLM Tools: OpenAI API, Local LLMs (GGUF/GGML), LangChain, RAG
- Infra & DevOps: Docker, Kubernetes, GitHub Actions, AWS (S3, Redshift, Lambda, Athena), GCP, Terraform
- Frontend/UX: Vue 3, React, Vite, Tailwind
- Other: Salesforce, Figma, Notion, Linux