# Oscar Bahamonde

## Data Architect & Software Engineer

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## 🧠 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.

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## 💼 Work Experience

### Globant — Senior Data Engineer

📅 Sep 2023 – Dec 2024

- Designed and developed a Data Development Framework with automatic onboarding.

- Built an OpenAI Replica using open-source LLMs for internal RAG-enhanced chatbot systems.

### Pronti AI — Backend Engineer

📅 Feb 2023 – Sep 2023

- 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**

📅 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**

📅 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**

📅 Jan 2017 – Jul 2017

- Managed B2B client portfolio and JDSU/VIAVI solution offerings.

**Huawei — Service Sales Engineer**

📅 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**

📅 Dec 2012 – Jun 2013

- L1 support, drive testing, and workflow coordination for 3G mobile networks.

**Telefónica Perú — Telecom Trainee**

📅 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

  📅 2006 – 2012

- **INICTEL-UNI**

  Diplomado en Gestión de Proyectos TIC (PMI®)

- **Colegio Pre-Universitario PAMER**

  High School, Ciencias

  📅 2004 – 2006

- **Colegio Salesiano Don Bosco**

  Elementary School

  📅 1997 – 2004

## 🚀 Projects

[Quipubase](#)

AI-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.

# 🏆 Accomplishments

### 🚀 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