

David Prat Robles

Engineering leader — AI Infrastructure & LLM Platforms

Location Barcelona · remote EU

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SUMMARY

Engineering leader with over 15 years of experience leading cross-functional teams to build AI-driven products. My expertise spans product strategy, cloud infrastructure, and execution across fintech, aviation, and large language models — bridging engineering, design and data science to drive outcomes that serve both user needs and business goals.

Recent highlights include leading AI initiatives at Multiverse Computing that delivered €20M+ in new revenue and roughly 50% average cost savings for enterprise clients through quantum-inspired LLM compression; directing aviation-maintenance technical products at IAG that generated over €40M in measurable cost savings; and founding Datapta and Finlooker, building a rotating team of 40+ engineers. Currently building Finlooker.io independently while completing an Executive MBA at EAE, and exploring my next senior engineering leadership role.

SKILLS

Technology Management · Cross-functional Team Leadership · Artificial Intelligence (AI) · Big Data · DevSecOps · Team Building & Hiring · Cloud Architecture · K8s · Observability

PROFESSIONAL EXPERIENCE

Multiverse Computing

2026

Senior Engineering Manager — AI

- Managed 4 teams (30+ ML engineers, 4 tech leads) building custom LLMs and SLMs for enterprise clients — around €20M in delivered revenue, plus open releases to the Hugging Face community.
- Cut model size 50%+ at 2–3% benchmark cost with CompactifAI, saving clients roughly half their inference budget on average; extended model capabilities with tool calling, coding and multilingual support.
- Coached tech leads and ran knowledge-transfer sessions for new team members, building a collaborative, high-performing culture across the teams.
- Co-led the cross-department LLM pipeline from research to production API serving and on-device deployment.
- Partnered with the CTPO on roadmap and OKRs, drove standardisation of data and metadata across departments, and owned GPU allocation across teams.

IAG IAG

2025 — 2026

Senior Tech Lead · Interim Head of Infrastructure

- Led DevSecOps architecture and ways of working across the MRO department, including rolling out AI-assisted code generation and review; guided new tech leads and hiring.
- Led technical delivery of an aircraft-maintenance AI assistant (RAG, hierarchical agents, serverless ingestion) within a €40M cost-savings programme, with DevSecOps and IaC on GitHub Actions and Terraform.
- Partnered with senior leadership on long-term product backlog planning.

IAG IAG

2024 — 2025

Tech Lead · Engineering Manager (two squads)

- Led two development squads — task definition, monthly backlog planning and technical/architectural debt management — bridging engineering with product and business; interviewed around 70 candidates for the new teams.
- Owned software quality and security for Python projects with SonarCloud and Snyk, and ran knowledge-transfer sessions across teams.
- Designed cloud architectures and data pipelines with AWS, Azure, Snowflake, ClickHouse and Power BI for big data, AI and web-service projects; applied DevSecOps and IaC with GitHub Actions and Terraform.
- Built Streamlit and FastAPI web apps for HPC workloads (linear optimization, metaheuristics) and AI, and selected the initial technology stack for an aircraft AI assistant using RAG and hierarchical agents.

Senior Cloud DevSecOps SRE Consultant

- Rolled out AWS and Cloudera CDP big-data infrastructure — service and policy automation with Terraform, Ansible and Jenkins, plus periodic Kubernetes and CDP upgrades.
- Ran production CDP Kubernetes clusters on AWS EKS with Grafana and Yunikorn; migrated tables from Apache Hive to Apache Iceberg.
- Provided MLOps/DataOps support across Cloudera CDF, CML, CDE and CDW, including data contracts for NiFi flows.
- Built Jenkins pipelines for automated alerting and server software updates, and configured centralized logging across AWS and on-prem servers with Splunk.
- Applied FinOps optimization — including instance right-sizing — to cut infrastructure cost and improve resource efficiency.

Datapta

2021 — 2024

Founder & Principal Consultant

- Delivered cloud and data-platform consulting through Datapta — including a 2.3-year AUDI AG engagement — and built Finlooker v1, a macro-intelligence platform (web, iOS/Android, hybrid infra on ArgoCD) with a rotating team of 40+ interns and junior engineers from IESE, ESADE and other technical universities.
- Set strategic and business planning for the company across B2B and B2C domains.
- Built hybrid infrastructure (fan-less on-prem servers + AWS) with a DevSecOps pipeline on ArgoCD.

Nebula Strategy

2022

Lead Solutions Architect Consultant — Assefy

- Mentored the startup and selected the technology stack for a new B2B data-catalog product spanning relational databases, data warehouses and unstructured media.
- Designed the architecture and built a proof of concept on Amundsen, swapping its default Neo4J backend for Apache Atlas, deployed with Docker Compose.

Antimetal

2022

Backend Cloud Consultant

- Built a Flask and MongoDB proof-of-concept backend for automatic AWS resource allocation based on user quotas.

BNP Paribas Fortis

2020 — 2022

Senior Big Data & DevOps Consultant

- Managed the software release lifecycle for the bank's data hub — CI/CD with Jenkins, Ansible, Kubernetes, Artifactory and GitLab, plus runbook creation and release testing against the Swagger API.
- Supervised ETL and resolved incidents across Spark, Flink, Kafka and HDP/CDP clusters, with workflows orchestrated in Autosys.
- Configured and administered the on-prem HDP/CDP platform (Hive, Tez, HDFS) and monitored Kafka/Flink clusters with Splunk.
- Built streaming jobs in Scala with Flink and Kafka, feeding internal client clusters (Kafka, IBM MQ, Cassandra DB) and BI tooling in a lambda architecture.

Simig Solutions

2019 — 2021

Big Data & Cloud Architect Consultant

- Designed and built an AWS big-data system processing daily electricity consumption for Red Eléctrica de España, using Glue, EMR, Lambda, PySpark, Zeppelin, Redshift Spectrum, SFTP and S3.
- Built data models and ETL for an electricity marketer's forecasting and analytics on Cloudera CDH (on AWS) with Apache Airflow.
- Led ETL migration from SQL Server to an on-prem Hadoop environment (Cloudera CDH, Hive, Impala, Kudu, Spark Core and Spark SQL), including client training.

IMIDomics

2017 — 2019

Big Data Technical Lead · Interim Engineering Manager

- Owned data governance for clinical databases (MySQL, SQLAlchemy, PDI Kettle) and terabyte-scale raw data files, plus IT vendor selection and relationship management.
- Led the architecture of a GCP big-data platform (OrientDB, GraphQL, Node.js, React, BigQuery, R, Cloud SQL, Kubernetes, Helm, Docker) for biomedical patient-data retrieval and analysis.
- Ran IT procurement and administration — desktop and server hardware, Active Directory, ELK and LAMP stacks, Jenkins — and budget control across GCP and Azure.

CTO — EdTech Startup

- Acted as CTO for the educational content platform, owning infrastructure and IT while advising on HR and business-model strategy.
- Defined the funding-research and client-dealing process for the startup.
- Ran client marketing campaigns with Mailchimp, Bitly and Google Analytics.

EARLY CAREER

Firmware Engineer, Hewlett-Packard (2014 — 2016)

HPC Research Engineer — Master's Thesis, Barcelona Supercomputing Center (2014)

Distributed Systems Research Engineer — Internship, Telefónica I+D (2012 — 2014)

HPC Systems Engineer & Lab IT Lead, Universitat Politècnica de Catalunya (2011 — 2012)

IT Operations Engineer & Departmental Helpdesk — Grant-Funded, Universitat Politècnica de Catalunya (2010 — 2011)

EDUCATION

EAE Business School — Executive MBA, Business Administration and Management (2025 — 2026)

La Salle BCN — MSc Project Management (PMI-accredited) (2014 — 2016)

Universitat Politècnica de Catalunya — MSc Innovation and Research — High Performance Computing (2012 — 2014)

Universitat Politècnica de Catalunya — BSc Computer Science — High Performance Architectures (2007 — 2011)

Universitat Politècnica de Catalunya — Associate Degree, Computer Systems — Embedded Systems and Software Engineering (2004 — 2007)

CERTIFICATIONS

CKA: Certified Kubernetes Administrator — The Linux Foundation / CNCF

CKAD: Certified Kubernetes Application Developer — The Linux Foundation / CNCF

CKS: Certified Kubernetes Security Specialist — The Linux Foundation / CNCF

AWS Certified DevOps Engineer — Professional — Amazon Web Services

AWS Certified Solutions Architect — Associate — Amazon Web Services

AWS Certified Security — Specialty — Amazon Web Services

AWS Certified SysOps Administrator — Associate — Amazon Web Services

HashiCorp Certified: Terraform Associate — HashiCorp

PCA: Prometheus Certified Associate — The Linux Foundation / CNCF

LPIC-1: Linux Administrator — Linux Professional Institute

AWS Databricks Platform Architect — Databricks

Generative AI Fundamentals — Databricks

Certified SAFe® 6 Product Owner/Product Manager — Scaled Agile, Inc.

Certified SAFe® 6 Scrum Master — Scaled Agile, Inc.

Certified SAFe® 6 Agilist — Leading SAFe® — Scaled Agile, Inc.

Microsoft Certified: Azure Data Fundamentals — Microsoft

Microsoft Certified: Azure AI Fundamentals — Microsoft

LANGUAGES

Spanish (Native)

Catalan (Native)

English (C2) — Cambridge English: Proficiency (CPE) · Cambridge ESOL · 2014

German (B2) — Goethe-Zertifikat B2 · Goethe-Institut Barcelona · 2019

French (B2) — DELF B2 — Diplôme d'Études en Langue Française · Institut français · 2020