

David Bujosa

Staff Software Engineer — Architecting Scalable Cloud & AI-Native Applications

Atlanta, GA · On-site, hybrid or remote

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Summary

12M+ documents in production · -86% AWS spend (\$25k → \$3.5k/mo) · 97.7–100% field match

Staff Software Engineer building AI-native backend platforms. Architect of **MAGGIE** — entity intelligence for risk, fraud and identity vetting across **12M+ documents** — from the domain model and API to the agent layer, batch pipeline and the metering that bills it; and of the **Brazilian tax and compliance engine** behind a LatAm B2B marketplace. Sets the contracts other teams build on, and owns the bill that follows: **-86% AWS spend** (~\$25k → ~\$3.5k/mo) on a platform that got faster, rebuilt from manual deploys into fully automated infrastructure-as-code. 7+ years across LatAm and the US; promoted Senior → Staff in eight months.

Experience

Roles from 2024 onward are concurrent consulting engagements, listed by client rather than sequentially.

Software Sushi — Staff Software Engineer

Contract · Remote · Feb 2024 – Present · *Staff since Oct 2024; Senior Software Engineer Feb – Oct 2024*

- **Designed MAGGIE end to end.** The AI entity-intelligence product for risk, fraud and identity vetting: domain model, API, data stores, agent layer, batch pipeline, back-office control plane and billing, with 12M+ documents processed. It is the architecture the rest of the platform now builds on.
- **System design across four stores:** a NestJS / TypeScript API on PostgreSQL (platform), DynamoDB (entity searches, batches, usage and cost), Redis (cache and metering) and OpenSearch (document retrieval), on ECS with Lambda, Kinesis and S3 — including the pagination, indexing and graceful-degradation rules every other service follows.
- **Set the contracts other services build on:** author of **@maggie/core**, the internal library every service imports — typed entity-search models, DynamoDB repositories, a traced *Envelope* message contract (hops, forks, service-namespaced data) and centralized logging — published to AWS CodeArtifact automatically on merge.
- **Made model behaviour governable:** a versioned use-case library (prompt, model and risk categories per version, superadmin-gated rollout) so scoring changes ship as reviewable versions instead of code edits — alongside LangGraph agent and chat workflows and MCP endpoints shipped as product surfaces.
- **Designed the metering and billing layer:** usage and AI-cost events with period aggregates, a cost-rate catalog and per-organization spend and usage limits — the platform prices, bills and throttles itself, and degrades safely instead of failing user requests.
- **Rebuilt the cloud underneath it (ThreatMinder):** cut monthly AWS **~86% (~\$25k → ~\$3.5k)** while the platform got faster, replaced manual zip deploys with fully automated infrastructure-as-code and CI/CD, and took Postgres from **100% CPU to ~0.3% utilization**, on a fraction of the hardware.
- **Document AI (Insurate):** sole architect of the EMR / Loss Run / ACORD extraction pipeline — model bake-off → FastAPI → **82-state Step Functions**, 16 → 8 Lambdas, SHA-256 cache; **97.7–100% field match** vs the incumbent vendor on a 179-PDF eval corpus.
- **Built the AI practice:** took it from 4 internal bots to 10+ ML repositories and an AWS Marketplace product — set the delivery standard every engagement ships against (authenticated endpoint, Dockerfile, IaC, evals), moved the team from prompt-tuning to agent operations, and made AI work sellable by making it meterable; mentored engineers and owned SEV response and on-call for client production.

NestJS · TypeScript · Python · Terraform · AWS · GCP · Kubernetes · PostgreSQL · DynamoDB · OpenSearch · LangGraph · MCP · Step Functions · Kinesis

BackChannel — Software Engineer, Tax & Compliance Platform (Brazil)

Freelance · Remote · Aug 2024 – Present

- **Architect of the Brazilian fiscal engine** behind every marketplace transaction — tax calculation, electronic invoicing (NF-e), document validation and audit trails — designed through the IBS/CBS reform transition, in one of the most complex tax environments in the world.
- Modeled the fiscal domain in PostgreSQL (rules, rates, exemptions, jurisdictions) so regulatory change lands as data, not as a rewrite; backend services in Go, TypeScript and Python across AWS (ECS, Lambda, SQS, API Gateway) and Google Cloud.
- Designed the AI infrastructure behind smart recommendations and automated inventory matching on Vertex AI; sole owner of company infrastructure (Terraform) and FaaS, with CI/CD across both clouds.

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Capa — DevOps Engineer · Software Engineer

Contract · Remote · Jun 2024 – Aug 2025

- Designed the partner-api-key security system and partner verification flows (dashboard, digital contract signing), and led **API v2** and the official SDK for a crypto on/off-ramp serving Mexico and the Dominican Republic.
- Automated deployments, cloud infrastructure and CI/CD for secure, compliant USDC on/off-ramp operations.

Digital Human — Software Team Lead (Educology) · Backend Engineer (BIT / SuperBravo)

Contract · Remote · Feb 2024 – Aug 2024

- Led the team and owned the architecture for Educology.com — 8 Go microservices + gateway on GCP Cloud Run, multi-tenant white-label; owned the backend monorepo and mentored the engineers working in it.
- In parallel, built Java / Spring Boot inventory and workflow APIs for BIT, SuperBravo's internal retail operations app.

Curbo Technologies — Senior Backend Engineer & Founding Engineer

Full-time · Remote · Feb 2020 – Feb 2024

- Founding engineer on the platform that became the product:** owned curbo-backend end to end — NestJS / GraphQL federation across five countries (DO / CO / MX / BR / AR) — and owned the release path for four years.
- Built the backend behind the storefront:** vehicle listing and checkout, test-drive booking, inspection workflows and Sell My Car, the flow that let owners sell their own vehicles.
- Restructured the platform as it grew:** led the re-architecture of 11 modules across the multi-country monorepo — turning a new country launch from a project into a single PR — and built the tooling the other teams ran on: centralized GitHub Actions, a shared component library, Python migrations and Kubernetes/Flux on GCP.

Earlier

WindTelecom — Full Stack Engineer (Nov 2023 – Feb 2024) · Digital Human — Junior Software Engineer (2019 – 2020)

- Customer-facing rebuild of the tienda.wind.do eCommerce platform, including cash on delivery (React / Redux, Spring Boot); earlier, backend services in TypeScript / Express and frontend in Svelte and React.

Technical Skills

AI & production agents: LangGraph · MCP · multi-agent orchestration · agent evals & guardrails · document AI pipelines · prompt & use-case versioning · usage metering and AI cost control · generative AI · LLM systems · SageMaker, Vertex AI, Databricks, MLflow

Languages: TypeScript · Python · Go · JavaScript · Rust · Java

Backend & APIs: NestJS · FastAPI · GraphQL federation · Go / Gin · Node.js · REST / gRPC · Spring Boot

Cloud & infrastructure: AWS (ECS, Lambda, Step Functions, Kinesis, S3, RDS, SES, CodeArtifact) · Terraform · GitHub Actions · Kubernetes · Docker / Fargate · GCP Cloud Run · Vertex AI

Data & messaging: PostgreSQL / TypeORM · DynamoDB · OpenSearch · Redis · Kinesis / SQS / SNS · Kafka · MongoDB

Practices: system design & technical direction · FinOps & cost engineering · observability (Prometheus, Grafana, CloudWatch) · multi-tenant & compliance-sensitive systems (PII, audit trails) · TDD · CI/CD · mentoring & delivery ownership

Writing: 7 published case studies and field notes with real numbers — AWS cost teardown, IaC modernization, document-AI evals, agent-orchestration patterns — at davidbujosa.com/blogs

Education & Credentials

M.Sc. Software Engineering — Cloud, Data & IT Management, University of Seville, Spain (2021 – 2023)

B.Sc. Software Engineering, INTEC (2017 – 2021)

Certifications: AWS Solutions Architect – Professional · Anthropic Claude Certified Developer · Databricks Platform Architect (AWS / GCP / Azure) · Google Cloud Generative AI Leader — 25 in total, full list at

davidbujosa.com/certifications