Joseph A. Arrieta Chilberry

CHIEF TECHNOLOGY OFFICER · SYSTEMS ARCHITECT · AI/LLM INTEGRATION

Quito, Ecuador

☐ (+593) 99-280-7816 | ✉ ja.chilberry@gmail.com | ⌂ chilberry.me | ⌨ jac1013 | ☐ joseph-arrieta-chilberry

Summary

CTO and systems architect with 16 years of experience turning ambitious product visions into production-grade systems. I specialize in AI/LLM integration, cloud architecture (AWS-certified), and building SaaS platforms that scale from MVP to enterprise. Currently CTO at Bixlabs and Münster Mind, where I lead engineering teams, define technology strategy, and ship AI-powered products with governance, security, and measurable ROI. I've scaled teams from 5 to 30+ engineers and built architectures that have been running in production for over a decade.

Work Experience

Münster Mind *AI Talent Platform*

CHIEF TECHNOLOGY OFFICER *Sep. 2023 - Present*

- Architecting an AI-native talent platform that uses LLMs and semantic analysis to ingest unstructured data (CVs, interviews, assessments) and transform subjective hiring into data-driven strategy.
- Built the Smart Screening and Predictive Cultural Fit engines, delivering real-time People Analytics to HR teams.
- Defined the full technology strategy, system architecture, and cloud infrastructure from the ground up.
- Leading engineering team across backend, frontend, and infrastructure with CI/CD automation and security-first delivery.
- Technologies: NodeJS, NestJS, ReactJS, TypeScript, PostgreSQL, AWS (ECS, RDS, S3, Lambda, CloudFront), Terraform, LLMs, Semantic Analysis.

FindMyProfession *via Bixlabs*

TECH LEAD *Apr. 2022 - Present*

- Architected the CI/CD pipeline from scratch to go from manual to fully automated saving 2-3 hours daily.
- Migrated servers from simple AWS EC2 to fully orchestrated cluster of containers demanding an SLA improvement and taking it to 99.9.
- Planned and repaired a system that previously experienced almost weekly outages, achieving zero outages over the entire year.
- Designed and Developed a system to replace an old one and proposed a "live" migration with 0 downtime, this resulted in users landing in the new system successfully without issues.
- Initiated the usage of Terraform for everything related to infrastructure, till this day everything related to infrastructure is automated and problems with configuration changes in production were reduced to almost zero.
- Technologies: NodeJS, VueJS, CypressJS, StorybookJS, ReactJS, PayPal, Braintree, AWS S3, ECS, EC2, RDS, DynamoDB, Lambda, API Gateway, Cloudfront, OpenSearch, Cloudwatch.

Context Driven *via Bixlabs*

TECH LEAD *Jan 2023 - Aug. 2023*

- Evaluated and coordinated the tech stack for the system.
- Designed and implemented the integration with OpenAI's GPT 3.5 model and made it agnostic to be able to test both functionality and performance with other models. This improved our experimentation times from multiple weeks to a couple of days.
- Provided recommendations on where to take the product and possible pivots to make it feasible, resulting in a change of direction that was necessary.
- Architected the whole infrastructure in an automated fashion using Terraform.
- Technologies: NodeJS, VueJS, StorybooksJS CypressJS, OpenAI, Claude3, AWS S3, ECS, RDS, Cloudfront, Cloudwatch.

Acapedia *via Bixlabs*

TECHNICAL CONSULTANT *Feb. 2023 - Apr. 2023*

- Conducted a technical audit and documented possible improvements both at the system and infrastructure level for later implementation.
- Implemented stress tests to evaluate performance and identify system's bottlenecks which ended up in improvements to the system reliability and stability.
- Repaired an SSL certification issue the team had for a while and simplified the handling of those implementing AWS ACM.
- Fine-tuned configurations of a couple of containerized services to improve performance and simplify them at the same time.
- Technologies: K6, AWS ECS, Load balancers, RDS, ACM, Route53, Cloudwatch.

Theta Lake

FULL STACK DEVELOPER
Aug. 2017 - Nov. 2019

- Engineered more than 20 integrations with different text, audio and video platforms.
- Influenced the design of both the Integrator and the Ingester project with recommendations found from the experience of working with the codebase, improving Development Experience.
- Coached the team on agile practices and do's and dont's regarding them.
- Established the tech stack for the Frontend project and made sure that both integration and end2end tests were part of the development process.
- Trained the Frontend team on quality aspects regarding Angular which kept the codebase in good shape.
- Technologies: Golang, Angular, StorybooksJS Selenium, MySQL, Cassandra, Zoom API, Slack API, MS Teams API, Google Meets API.

Bixlabs
Full-time

CHIEF TECHNOLOGY OFFICER
Sep. 2014 - Present

- Defining technology strategy and leading architecture across multiple SaaS products serving enterprise clients for 10+ years.
- Scaled the engineering team from 5 to 30+ developers over a decade, building hiring processes, mentorship programs, and agile culture.
- Provided consulting to multiple clients regarding software architecture and infrastructure design.
- Directed operations initiatives for 3 years as COO, implementing new tools and training the team.
- Mentored more than 10 developers in the tech lead role.
- Created and delivered 50+ TechTalks as technical teachings for overall team improvement.

Certifications

2023   **AWS Certified Cloud Practitioner**,   Amazon Web Services.   *Online*

2023   **AWS Solutions Architect Associate**,   Amazon Web Services.   *Online*

Languages & Technologies

Programming Languages
- JavaScript / TypeScript
- Golang
- Python
- Java
- Terraform (HCL)
- Clojure
- Haskell
- SQL

Databases & Storage
- PostgreSQL, MySQL
- MongoDB, DynamoDB
- DocumentDB
- Elasticsearch, OpenSearch
- Cassandra
- Redis
- AWS S3
- Supabase

AI & Cloud
- LLM Integration (OpenAI, Claude)
- Semantic Analysis / NLP
- Agentic AI Workflows
- AWS ECS, EC2, Lambda
- API Gateway, CloudFront
- Route53, CloudWatch
- CloudFormation, Terraform
- Docker, Docker Compose

Frameworks & Tools
- NestJS, Express, Koa
- React, Next.js
- Vue, Angular
- Tailwind, Sass
- Cypress, Jest, Mocha
- Storybook, Selenium, Puppeteer
- Stripe, PayPal, Braintree
- Git, Linux, Nginx

Architecture & Practices
- System Design
- Microservices, Event-Driven
- Domain-Driven Design (DDD)
- CI/CD Pipeline Design
- Infrastructure as Code
- Agile / Scrum

API Integrations
- Slack, MS Teams, Zoom
- RingCentral, Google Meet
- Google Calendar, Outlook
- Salesforce, MuleSoft
- OpenAI, Anthropic Claude

Certifications
- AWS Cloud Practitioner
- AWS Solutions Architect Assoc.
- AWS Developer Assoc. (WIP)

Languages
- Spanish (Native)
- English (Advanced)

Education

UNADE American University of Europe
Online, Mexico

M.S IN SOFTWARE ENGINEERING
Sep. 2019 - Sep. 2021

Universidad Rafael Belloso Chacín
Maracaibo, Venezuela

B.S. IN SOFTWARE ENGINEERING
Sep. 2007 - Dec. 2012