

# Jose Constela

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## SUMMARY

Accomplished Senior Developer with 10+ years of experience designing, building, and maintaining scalable infrastructures for a global client base.

High focus on AI LLMs, forward frameworks, etc.

Some of my customers are in Spain, UK, Belgium, USA and Sydney. Among them are: bpost, Tata Consultancy Services, Beamery, Seed Jobs, Collectable, Nightset, University of Vigo.

## SKILLS IN TECHNOLOGY

Expert: Full E2E Product Development, Generative AI, NodeJS, MongoDB, REST APIs, Microservices Architecture .

Advanced: AWS, Large Language Models (LLMs), MySQL, PHP, Docker, Containers, Python .

AWS Services: IoT Core, API Gateway, EC2, ECS, S3, Lambda, CloudWatch, IAM, CloudFront, Certificate Manager, Secret Manager, CloudFormation, Elastic Beanstalk, Route53, RDS .

## SKILLS IN LANGUAGE

Spanish (Native)  
English (Professional)  
Portuguese (Advanced)

## PERSONAL PROJECTS

- [E2E Test framework](#)
- [Background agents for companies](#)
- IIm proxy - poc
- Automation designer and monitoring.
- Geographical monitor & automation.
- Many others @ GitHub

## WORK HISTORY

### Engineering lead

*bpost | Logistics | Belgium | 2024 - Present*

Led enterprise-level architecture and systems design for a nationwide network of IoT devices.

- Applied Domain-Driven Design (DDD) to untangle complex infrastructure caveats and build highly scalable, distributed backend systems.
- Designed and helped on implementation o an event-driven micro-services architecture using Apache Kafka.
- Managed cloud-native deployments on AWS, orchestrating containerised applications and serverless compute.
- Defined API design standards (REST) and system integration patterns.
- Designed/implemented CI/CD pipelines strategies and guardrails.
- Mentored the engineering team on backend system design, data architecture and strict security standards.

A brief of the technologies used: AWS (ECS, EC2, Lambda, API Gateway, IAM, CloudWatch). Apache Kafka, Docker, Microservices, REST APIs.

### Chief Technical Officer

*Nutrinomics | e-Health | Belgium | 2022-2024*

- Participation on large European projects to integrate technology from different partners.
- Participation in conferences / round tables on technology and food/health industry.
- Gradual migration from Monolithic to microservices architecture.
- AWS management and administration for performance improvement and costs saving.
- Maintenance of Angular application.
- New integrations on mobile application: push notifications, payments, etc.
- Creation of new back office using React-admin.
- Build different reporting scripts using MongoDB pipelines.

A brief of the technologies used:

- AWS API Gateway, Cognito, IAM, EC2, S3, CloudFront, Certifcate Manager, many others.
- MongoDB Atlas.
- Different SEO, tracking, marketing, analytics, communication tools.

### Systems Designer

*Tata Consultancy Services | Logistics | Belgium | 2019-2022*

Relocated to Belgium. Helped to plan, design, document and maintain high traffic and highly scalable services running on AWS. Specially working on large IoT projects.

- Keep an eye on end user experience, by looking for, and implementing changes to help drastically reduce response times (every millisecond counts!)
- Led brainstorming sessions to boost operations and end user's technology perception.
- Participating in business end-to-end testing, product planning, ...
- Grow their knowledge and implement development best practices.
- Drive, participate and offer my support during security and performance testing.
- IOT Core for large deployments, API Gateway, EC2, ECS, S3, Lambda, Cloudwatch, Secret manager, Cloudfront, Cloud formation - Certificate manager.

### **Product Technology (Consultant).**

*Send2Me | Logistics | Spain | 2019-2020*

I've helped Send2Me to plant and perform the necessary development for new hardware products.

- Help on technology choices, plan and integrations of the same.
- AWS management and administration.
- Software design and development: web services, back offices, IoT projects, etc.
- Project management.
- AWS IoT Core, Api Gateway, EC2, S3, etc.
- NodeJS, Angular & Electron.
- Implementation of protobuf communication protocols.

### **Senior backend engineer (Consultant).**

*Collectable.com Inc. | Mobile application | Boston, USA | 2017-2019*

Development of scalable scraping systems to ingest more than 2B USD value in sports collectibles data. Also migrated their backend services to RESTful APIs and built an MVP web application in 1 week.

- AWS EC2, Lambda, API Gateway, Elastic Beanstalk, CloudFront, Route53, RDS (+full text)
- MongoDB (Running on Atlas) / Redis
- MeteorJS, NodeJS
- Docker / Dokku / Heroku
- Selenium / Puppeteer

### **Senior backend engineer**

*Nightset | Social application | London UK | 2016-2018*

- API design and implementation - NodeJS, Swagger, MongoDB.
- Data analysis and aggregation.
- AWS lambda based microservices.
- Data scraping & curation tools, some are slack-bot powered.

### **Senior backend engineer (Consultant).**

*Beamery/SeedJobs AngelPad '14 | CRM for Human Resources | London UK | 2014-2015*

- Micro services and NodeJS Development.
- ATS Integration
- API Design and implementation.
- Team processes and documentation.
- Amazon Web Services management.

### **Software Developer.**

*Totally Communications | Digital Agency | London UK | 2012-2013*

My main role there was web applications & sites developer in LAMP environments.

- PHP Development on Zend Framework.
- Wordpress custom developments.
- Twitter, Google Maps, and YouTube APIs.
- OOP JavaScript, jQuery & ExtJS 4.2.0.

### **Backend developer & AWS manager.**

*Vimirk | Facebook Application | Barcelona Spain | 2012*

Vimirk is a social video aggregator Facebook application where users can share, fav and create playlists and artists can get demographics and other analytics of their videos.

- Migration to Amazon Web Services: EB, EC2, IAM, Load Balancers & SSL management.
- PHP development.
- Facebook & YouTube APIs.
- Process and IT infrastructure documentation.