

# JOSÉ ALBERT CRUZ ALMAGUER

## Software Engineer

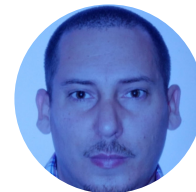
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## POSITIONS

### Software Engineer

#### Intelygenz/VASS

Feb 2023 – Ongoing

Madrid, Spain

- Scala Backend developer
- Scala 3/Akka (Persistence/Streams) [Senior level]
- Scala 3/Cats Effects (doobie/Smithy4s) [Mid level]

### Back End Developer

#### Betika

Oct 2020 – Jan 2023

Barcelona, Spain

- Backend developer
- Scala/Akka, Elixir, MySQL, RabbitMQ

### Backend Developer

#### Safeboda

Feb 2019 – Aug 2020

Barcelona, Spain

- Backend developer, company fintech services
- Elixir/Phoenix, Postgresql

## PHILOSOPHY

*"The essence of the independent mind lies not in what it thinks, but in how it thinks."*

## STRENGTHS

Obsessive reader/learner

Critical Thinking

Intellectual humility

Intellectual honesty

Actor based concurrency

Computer Science

Backend Developer

Functional Programming

## LANGUAGES

Spanish

English



## EDUCATION

### M.S. in Computer Science

Universidad Central "Marta Abreu" de Las Villas

Sep 2009 – Jun 2011

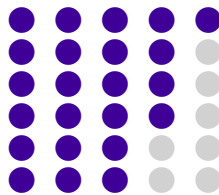
### B.S. in Computer Science

Universidad de Oriente

Sep 1999 – Jun 2004

## SKILLS

Scala/Akka  
Monitoring: (Prometheus/Grafana)  
Linux/Docker/Podman  
Microservices: (DDD/ES/CQRS)  
Testing: (Gatling/WireMock)  
Software design



## EXPERIENCE

Company	City	Position	From	To
Intelygenz/VASS	Madrid, Spain	Backend Developer	Feb 2023	Ongoing
<b>General activities</b> Backend for Loyalty related services in a Fintech product.				
<b>Functional Experience</b>		<b>Backend services</b> Implementing event sourced entities for processing financial data.		
<b>Tools</b>		<b>Scala/Akka Persistence/Akka Streams</b> Event sourcing and data processing. <b>Smithy4s/doobie</b> REST/Read side services. <b>Postgres/Cassandra</b> datastores. <b>Kafka</b> asynchronous integration. <b>gRPC</b> synchronous integration. <b>CI/CD deployment</b> GitLab/Docker/Kubernetes. <b>Monitoring</b> Prometheus/Grafana.		
Company	City	Position	From	To
Betika	Barcelona, Spain	Backend Developer	Oct 2020	Jan 2023
<b>General activities</b> Backend services for data ingestion and integration with external services.				
<b>Functional Experience</b>		<b>Data ingestion</b> integrating with a leading supplier of sports betting data (Betradar) using <b>Scala/Akka Streams</b> . Using an event streaming oriented architecture (with RabbitMQ as integrator) and implementing custom graphs processing semantics with several transformation and validation logics. <b>Backend services</b> Working on Elixir based services of the betting platform.		
<b>Tools</b>		<b>Scala/Akka Streams</b> Betradar integration, error recovery and data correction. <b>Elixir/GenStage</b> Wallet/payments services. <b>MySQL</b> datastore. <b>RabbitMQ</b> messaging. <b>CI/CD deployment</b> GitLab/Docker/Kubernetes. <b>Monitoring</b> Prometheus/Grafana. <b>Load testing</b> Gatling. <b>Services virtualization</b> Wiremock. <b>Documentation</b> AsciiDoctor/PlantUML/C4-model.		

Company	City	Position	From	To
Safeboda	Barcelona, Spain	Backend Developer	Feb 2019	Aug 2020
<b>General activities</b> Backend services for the Fintech business domain. Maintaining and monitoring the AWS based infrastructure.				
<b>Functional Experience</b>	As developer the tasks are related to the company fintech services, and to the migration of the PHP monolith to Elixir services. Several POCs had been made to test different deployment/architecture with alternative technologies: Nomad/Consul/Docker/KrakenD. The DevOps tasks are related to maintaining AWS based infrastructure via Terraform, and the Ansible/Docker based release pipeline.			
<b>Tools</b>	<b>Elixir/Phoenix/Absinthe</b> Fintech services. <b>Gatling/WireMock/Hoverfly</b> Functional testing. <b>GoReply/mitmproxy/Toxiproxy</b> Infrastructure testing. <b>Nomad/Consul/Docker/KrakenD</b> Alternative architecture tested: a cluster of BEAM docker based nodes having the Internet facing services behind a gateway (KrakenD). <b>Terraform/Ansible</b> DevOps tools. <b>AWS</b> Cloud services: ALB/EC2/S3. <b>Postgres</b> datastore.			