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EXPERIENCE

KUNG FU SOFTWARE SL

SEPT 2019 - PRESENT

- Create bevel-operator-fabric, a Kubernetes operator, to automate the deployment of Hyperledger Fabric networks. Scaled it to 271 stars on Github, and dozens of companies using it

- Meetups on Hyperledger Fabric and bevel-operator-fabric.

- Meetup on decentralized identity using Credo TS.

- I worked on a lot of clients, more information on https://kfs.es (KFS is a one-person-company)

GALA

SEPT 2023 - PRESENT

- Scale Hyperledger Fabric to hundreds of peer and dozens of channels.

- Automate the network creation and chaincode deployments using terraform.

- Troubleshooting and fixing issues in production blockchain networks

Region Of Waterloo

APR 2023 - PRESENT

- Develop a React Native application using Aries Framework Javascript (credo-ts now) and a backend using AFJ to issue credentials and communicate P2P between mobile devices.

- Develop a schema and issuer registry to store the issuers and the authorised schemas to be issued by each issuer

- Develop and manage a DID registry using the method **did:web** to make each user and issuer resolvable.

- Encrypt and store data of each agent independently on the server and the user side.

Fujitsu - *Solution's architect*

JAN 2022 - PRESENT

- Software architecture & Design for Fujitsu projects in Hyperledger Fabric

- Design and implement CI/CD pipelines

- Develop smart contracts and API which interact Hyperledger Fabric

Technologies used:

- GoLang to interact with Hyperledger Fabric components
- Node.JS for smart contracts
- Node.JS for GraphQL APIs
- Kubernetes, Helm and ArgoCD to deploy applications
- PostgreSQL for off-chain databases
- Azure File Store to store files
- Azure

Altia, Alicante - *Solution's architect*

APR 2020 - PRESENT

- Software architecture & Design for a Blockchain network for EUIPO for a network that went live in April with 2 organizations.
- I developed a Kubernetes Operator to manage [Hyperledger Fabric](#) 2.2+ networks, [Github repository](#).
- I developed an External builder for Smart contracts(chaincode) for Hyperledger Fabric to run chaincodes in Kubernetes, [GitHub repository](#).

Technologies used:

- GoLang to interact with Hyperledger Fabric components
- Java for smart contracts
- Spring boot for developing APIs
- Node.JS for GraphQL APIs
- React for building frontend applications with TailwindCss and Material UI
- Kubernetes, Helm and ArgoCD to deploy applications
- Kafka for data pipelines
- PostgreSQL for off-chain databases
- Minio to store files with the S3 API
- Python for Web APIs and prototyping

Kung Fu Software, Alicante - *Software architect/develop*

SEP 2017 - PRESENT

- Blockchain network architecture and automation of new components(Peers, Orderers, CAs) with an API. Deployment of the blockchain network on AWS.
- Optimize chaincode development lifecycle from minutes to seconds.
- I provided architecture consulting to accelerate delivery and startup of projects using CI/CD, unit testing and making use of external services to track analytics, such as Sentry, Amplitude, Jaeger.
- Development for https://www.golfchain.golf using:
    - Flutter for the mobile application, Django for the backend, Vue for the frontend, External services used: Firebase, Sentry, Jaeger, Mailgun, Minio(S3).
- I launched https://docxmerge.com, a method to render Microsoft Word documents into any format. The process is based on reading the XML which is inside the document. Same external services were used as Golfchain.
- Launched product to inspect business in municipalities, nowadays there are ten municipalities in the system. https://app.tributosytasas.com. Same external services were used as Golfchain.
- Proof of concepts of a chatbot with Rasa to answer for FAQs connecting it to a database using actions, automate the deployment and use of Rasa X community version.
- Conduct a Four-week course to teach Python for beginners in Distrito Digital of Alicante.

Technologies used:

- Node.JS with typescript
- Java for digital signature using DSS provided by EC
- Django for web applications
- Flutter for mobile applications
- Python for chatbots
- Dotnet core to develop Docxmerge
- Kubernetes/Docker
- Minio to store files
- RabbitMQ for data pipelines
- Weblate for I18n management
- Sentry for error reporting and troubleshooting
- Golang to automate the deployments

Altia, Alicante - *Full-stack developer*
DEC 2016 - SEP 2017
- Reduced migration from six databases to Elasticsearch from 12 hours to 30 minutes using PL/SQL, python and bash scripts.
    - There were two different types of databases (Oracle, Informix)

- ○ Databases included information in multiple encodings (e.g iso-8859-1 (es), iso-8859-7 (greek/latin), etc)
- Development of three e-filing systems for EUIPO for Cancellations, oppositions and invalidities.
- Spring boot for the API, Kafka topics to integrate with the back-office systems and React for the interface.

Geonet Territorial, Alicante - *Full-stack developer*

SEP 2015 - JAN 2017

- Development of the new Tax application for SUMA
- PL/SQL for the business logic, Angular for the front end and Java for the intermediate layer.
- I reduced the intermediate layer mean response time from 500ms to 20ms per request using a server in C instead of Java with [Libuv](#) (a library which Node.JS is based on), with native drivers in Oracle.

NGS, Alicante - *Full-stack developer & Mobile developer*

DIC 2013 - SEP 2017

- I developed a native mobile application for Quetzatelnango to read and synchronise electricity and water meter reading. It was deployed on 50-80$ phones. This application used GIS in order to geolocate every meter and visualise it in a map using Leaflet. A GeoServer backed up with Postgis was used for this project.
- I built management software for an English Academy, which improved the efficiency of the business and allowed them to expand up to 3 academies.
- Web eCommerce for small businesses with ASP.NET and SQLSERVER.

EDUCATION

Open University of Catalonia, Barcelona - *Bachelor Degree on Computer's science*

SEP 2015 - JUN 2020

Destacable experience

Rasa

I've followed Rasa since 2019 and I have developed several proofs of concepts before and after Rasa X. The projects involved:

- ❏ Automation of the deployment
- ❏ Fetch and generate training data from different data sources to improve the model accuracy
- ❏ Extensive use forms to complete workflows

- ❏ Integrate rasa-webchat in an existing website and customize the styling.
- ❏ Store logs in a database to analyse the responses and improve the model over time.

GIS

One of the first projects I developed was for Quetzatelnango(Guatemala). The goal of this project was to digitalise all the meter readings for electricity and water. This data had to be georeferenced. The location was obtained from the current mobile using the location services available. If there were any data missing the users could add it via the web app, which had a map viewer using Leaflet.

The information was stored in Postgres, with the extension PostGIS, I'm sure you know it, and maybe they're looking for someone who knows PostGIS.

To show it to the user, we needed a GeoServer, so I configured a PostGIS source to show a map with the meter reading for electricity and water, the widget in the frontend was Leaflet.

Since that project was built, I have used PostGIS to georeference any item needed, such as IPs in every application I've created.

Mobile applications

Developed, maintained and published applications to both stores, Android and Apple. It's crucial (even more when you're the only developer) to automatise the following processes:

- Publishing to stores
- Capturing screenshots per device for Android and IOS
- Automated testing

The technologies used were:

- Fastlane
- Screenshot package for flutter https://pub.dev/packages/screenshot
- Flutter testing packages for both unit and integration testing.

Digital signature

I didn't write it into the CV as it was too long, I have many other experiences, for example, signing digital documents with CAdES, XAdES, PAdES for app.tributosytasas.com.

To comply with the regulation, the library used was from Building Blocks of Europe, called ESignature. This library is available in Github, and it was used as a microservice.

In the process of signing the document, a Timestamp was added using a TimeStamping Authority.