Rubén Calvo Villazán

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EDUCATION

**2015 - 2019
(Granada)**

**UNIVERSIDAD
DE GRANADA**

Degree in Computer Engineering at the University of Granada.

Specialization in IT (**Information Technology**) and graduating **with honors** in the subjects related to programming. Some of the knowledge I acquired includes algorithms and data structures, Linux operating systems, open source, object oriented programming in different languages, artificial intelligence, server and client side programming, networks and cybersecurity.

Realization of a **Degree Final Project** using **Blockchain** technology that obtained the qualification of **8.5**.

**2013 - 2015
(Granada)**

Bilingual Scientific and Technological Baccalaureate.

Baccalaureate studied in **English** in a bilingual way, in both scientific and technological subjects.

Exchange student for 3 months in Belgium.

LANGUAGES

Spanish – Mother tongue.

English – High level. C1 Advanced. Full-Working Proficiency.

PROFESSIONAL EXPERIENCE

2020 - Present
(Madrid/Germany)

Blockchain Developer.

As a Blockchain developer at Nexplore (Hochtief entity), I create new technological innovations in the field of construction. Develop a Blockchain platform to unify construction processes, allow the traceability of materials and ensure the immutability of construction contracts. My role in this company is the development of a platform, the design of the blockchain core, configuration and development of a Blockchain (Hyperledger Fabric) network, and the creation of REST API to communicate with the Blockchain (Go, Typescript).

- Configuration of the Blockchain core (**Hyperledger Fabric**).
- Multi-organization and peers blockchain configuration.
- Distributed Blockchain hosted on **Microsoft Azure**.
- **Kubernetes** Blockchain orchestration and management.
- **Helm charts** to automate the deployments.
- **Helm file** configuration for multiple-charts deployments.
- Chaincode development in **Typescript** and **Go**.
- Go channels/threads for asyncronous chaincode.
- Dockerization of REST API on Azure and **platform-independent** Blockchain.
- Asyncronous interactions with the Blockchain (**RabbitMQ**)
- **Docker** images development for REST API to interact with the Blockchain.
- Development of a **Hyperledger Fabric CLI** wrapper in Go.
- Data Transfer Object (**DTO**) API to interact with the Blockchain and with the Client.
- BitBucket Continuous Integration/Continuous Delivery **(CI/CD)**
- **BitBucket pipelines** to support the continuous development.
- **Block Explorer** in the Blockchain to extract statistics.
- **Prometheus** to audit the Blockchain.
- **GitHub workflows and actions** for continuous development.
- GitHub and BitBucket collaborative code.
- **Agile / SCRUM** workflow using **Jira** and **Confluence**.
- Production project experience.

Full-Stack Blockchain Developer.

As a Full-Stack Blockchain developer at Cibernos, I dedicated myself both to the end user's view of the product and also to all the Blockchain logic behind it. My role in this company was the design, configuration and development of a Blockchain (Hyperledger Fabric) network, the inter-communication of various REST APIs (NodeJS) with the Blockchain, and the development of a web application (Angular) for the end-user to interact with the product.

- Blockchain network design.
- **Hyperledger Fabric** configuration and development.
- Blockchain scalability and network maintenance (including Fabric update to latest version).
- **Smart Contract** development using **NodeJS** and **Go**.
- REST API design and development in **NodeJS**.
- Asynchronous integration and communications API-Blockchain.
- REST APIs hosted on **Amazon Web Services**.
- Cloud computing and scalability.
- Blockchain integration with **AWS S3** storage to store the off-chain data**.**
- Blockchain integration with a decentralized storage system (**IPFS**) to store off-chain data and confidential files.
  (https://ipfs.io/)
- Modularization of the product in **Docker** containers.
- Dependencies and multi-container definitions using **YAML** files and **Docker-Compose**.
- Securization of the API with **Json Web Tokens**.
- **Angular** web application and integration with REST APIs.
- Version control and collaborative code with **GitHub.**
- **Agile** workflow with **Trello**.

Business Intelligence Consultant at Banco Mare Nostrum.

During my experience as a Business Intelligence Consultant at Banco Mare Nostrum, I worked on the technological integration with Bankia, performing the migration of the customer database, the update and maintenance of the databases as well as the deployment of periodical procedures to keep the data updated. I also worked on the data treatment to be displayed on a web application.

- Technological integration of BMN with Bankia for the bank fusion.
- Development of procedures in **PL/SQL** language.
- Database processing with **Teradata**.
- Data analysis.
- Client reports creation with **MicroStrategy**.
- Data treatment via a web application.

OTHER EXPERIENCE

Sales Promoter and Sales Agent in Jazztel.

Product sales, customer service and commercial marketing.

- Communicative skills.
- Dynamism and pro-activity.
- Orientation to results.
- Teamwork and leadership.
- Problem solving.
- Communication with clients from all over the world.
- Use of several languages.

PERSONAL PROJECTS

- Forensic evidence manager with Ethereum Blockchain.

  (https://github.com/rubcv/Ethereum-evidence-manager)

  (https://prezi.com/p/swqnbn2o6ygn/) (presentation).

  Complete ecosystem that allows to store forensic evidences in a Blockchain (Ethereum). REST API (NodeJS) to communicate with the Blockchain and custom website to interact with the API. Website integration with the Metamask web wallet.

  - **Ethereum Framework.**
  - Smart Contract development in **Solidity**.
  - Network management with **Truffle**.
  - REST API development in **NodeJS**.
  - Environment integration with the **Truffle-suite** tools.
  - Application testing with **Ganache** and **TestRPC** test-networks.
  - Integration with the web wallet **Metamask**.

- Decentralized File System (**IPFS**) API with NodeJS. (https://github.com/rubcv/IPFS-API)
- Support the Telecommunications University of Granada (ETSIIT) in an extension of my Final Degree Work.
- Creation of a web service in the decentralized Tor network.

  (https://github.com/rubcv/Hidden-Service-Tor-Network)

- Decentralized voting system using **Hyperledger Fabric**.

  (https://github.com/rubcv/Decentralized-Vote)

- YouTube channel with video tutorials dedicated to decentralized technology.

  (https://www.youtube.com/channel/UCGReyQexaqZtvfkqogBWaHw)

- Document traceability using **Ethereum** Blockchain and **IPFS** storage.

  (https://github.com/rubcv/Document-Traceability-Ethereum-IPFS)

- **Custom Blockchain** made in **Typescript**.

  (https://github.com/rubcv/custom-blockchain)