

LUIS MIGUEL GARCIA

BLOCKCHAIN ARCHITECT & SENIOR DEVELOPER

<https://www.linkedin.com/in/garvaz/>

BLOCKCHAIN DEVELOPMENT EXPERIENCE



ERC20 WITH DELEGATED CONTROL.

This project was implemented for a University, the goal of the project is to allow students to interact with a custom **Ethereum ERC20** tokens using **Metamask** browser based wallet.



How was it implemented?

The client required a Blockchain's backend API and a demo web application to see how to connect his own web application. His web application allows students of a languages class to bet on what will be the week's main news story, the student receives a number of token defined by the professor directly to their wallets, the student bet on a page and the page does the transfer of the betted tokens to a smart contract developed by me to manage the bets and payments. When the page is requesting approval to transfer tokens to the smart contract, Metamask prompts the user for approval, the user approves his bet directly on Metamask. This process was designed to have a more interactive Blockchain experience for Students.



Ethereum Technology Stack:

- Ethereum Blockchain
- ERC20 Zepelling contracts
- Infura.io & local node
- Web3 framework
- Solidity 0.4.19
- Metamask wallet



Development Technology Stack:

- Remix Editor
- Truffle Framework
- Ganache
- Visual Studio Code
- NodeJS 10.4
- Express

Registrar Alumno al curso

Matricula

Nombre Completo

Campus

Grupo

Ethereum account

Registrar Alumno

Connect Request

Alta de Alumno localhost

Account 2

Alta de Alumno would like to connect to your account

This site is requesting access to view your current account address. Always make sure you trust the sites you interact with.

Learn more.

MetaMask Secure

Cancel Connect

Git Hub Repos:

<https://github.com/garvazsof/ERC20MetaMask>

<https://github.com/garvazsof/ERC20API>

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WHISPER PROTOCOL FOR ENCRYPTED COMMUNICATION .

This project was implemented for the messaging app named **Privasse.io** with focus on encryption of messages, the goal of the project is to allow a second layer of communication to the app's protocol.



How was it implemented?

The App required a Blockchain based communication protocol to allow users a second layer of security in communications. With the implementation of **Ethereum Whisper Protocol** the app was prepared for future decentralized app or Dapp functionalities like transfer of money and third party Dapps integration.



Ethereum Technology Stack:

- Ethereum Blockchain Geth Node
- Web3 1.0.0
- Solidity 0.4.19
- Whisper 6.0



Development Technology Stack:

- Truffle Framework
- Ganache
- Visual Studio Code
- NodeJS 10.4
- Express

Code Repos:

<https://github.com/garvazsof/wspAPI/>

Code is in private repo and protected by NDA.

A screenshot of a code editor showing a snippet of JavaScript code. The code is for a 'whisper' module and includes imports for express, router, Web3, net, and whisper methods. It defines a POST endpoint for sending messages using a public key and topic. The code uses web3 to interact with a Geth node and promises to handle the message sending process. The code editor interface shows tabs for Raw, Blame, History, and a file icon.

```
150 lines (117 sloc) | 4.61 KB
1 var express = require('express');
2 var router = express.Router();
3 var Web3 = require('web3');
4 var net = require('net');
5
6 /* Whisper Methods */
7
8 var web3 = new Web3(new Web3.providers.IpcProvider('/home/gzlm/.ethereum/geth.ipc', net));
9
10 /*Send Mesages using publicKey, topic & encrypted message*/
11 router.post('/', function(req, res) {
12   //req.body.publicKey;;
13   var _pubkey = '0x040
14   var _topic = req.body.topic;//topic: '0xfffaadd
15   var _message = req.body.emessage;
16   var results = [];
17
18   Promise.all([
19     ]).then(() => {
20
21     web3.shh.postMessage(
22       publicKey,
23       topic,
24       message,
25       options,
26       provider);
27     }).then(txId => {
28       results.push({
29         txid: txId,
30         status: "Sent",
31       });
32   });
33 });
34
35 module.exports = router;
```

File Edit View Search Terminal Help

A screenshot of a terminal window showing the output of the 'geth -syncmode "light" --ws --shh' command. The output logs the start of the peer-to-peer node, allocation of cache and file handles, initialization of chain configuration, disk storage enablement, trusted checkpoint addition, local header loading, P2P networking start, UDP listener up, and the start of the Whisper v.6.0 protocol. The terminal window has tabs for File, Edit, View, Search, Terminal, and Help.

```
gzlm@gzlmVB:~$ geth -syncmode "light" --ws --shh
INFO [10-20|15:46:41.453] Maximum peer count
INFO [10-20|15:46:41.460] Starting peer-to-peer node
INFO [10-20|15:46:41.460] Allocated cache and file handles=512
INFO [10-20|15:46:41.496] Initialised chain configuration
true EIP150: 2463000 EIP155: 2675000 EIP158: 2675000 EIP160: 2675000 EIP161: 2675000 EIP162: 2675000 EIP163: 2675000 EIP164: 2675000 EIP165: 2675000 EIP166: 2675000 EIP167: 2675000 EIP168: 2675000 EIP169: 2675000 EIP170: 2675000 EIP171: 2675000 EIP172: 2675000 EIP173: 2675000 EIP174: 2675000 EIP175: 2675000 EIP176: 2675000 EIP177: 2675000 EIP178: 2675000 EIP179: 2675000 EIP180: 2675000 EIP181: 2675000 EIP182: 2675000 EIP183: 2675000 EIP184: 2675000 EIP185: 2675000 EIP186: 2675000 EIP187: 2675000 EIP188: 2675000 EIP189: 2675000 EIP190: 2675000 EIP191: 2675000 EIP192: 2675000 EIP193: 2675000 EIP194: 2675000 EIP195: 2675000 EIP196: 2675000 EIP197: 2675000 EIP198: 2675000 EIP199: 2675000 EIP200: 2675000 EIP201: 2675000 EIP202: 2675000 EIP203: 2675000 EIP204: 2675000 EIP205: 2675000 EIP206: 2675000 EIP207: 2675000 EIP208: 2675000 EIP209: 2675000 EIP210: 2675000 EIP211: 2675000 EIP212: 2675000 EIP213: 2675000 EIP214: 2675000 EIP215: 2675000 EIP216: 2675000 EIP217: 2675000 EIP218: 2675000 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AEGIS CHAIN, PLATFORM FOR SUPPLY CHAIN & FOOD SAFETY

[AEgischain.io](#) was created to allow retailers and food industries to manage processes related to supply chain and food safety. It is backed by the powerful DLT Blockchain technology for data integrity, immutability and transparency.



How was it implemented?

One of the founders of the project worked for the food industry in California back in the year 2,000 where he recognized the need for a supply chain and food provenance platform, that helps reduce the risks and high costs related to problems in food management, like contamination by enteropathogens and recalls of products probably contaminated. With the implementation of **Quorum Blockchain**, that is an **enterprise version of Ethereum**, the founders opened the possibility to track any piece of food through the chain and quickly communicate to the related parties when a foodborne outbreak is alerted, helping to save costs to the industry and customers lives. This project uses a Quorum consortium mounted in Kaleido and enabled to allow fast transaction processing and consortium grow. The smart contracts were enabled to record all the transactions in the supply chain where forms are captured by the participants using mobile devices.



Quorum Technology Stack:

- Kaleido's Quorum Consortium
- Web3 1.0.0
- Solidity 0.4.24

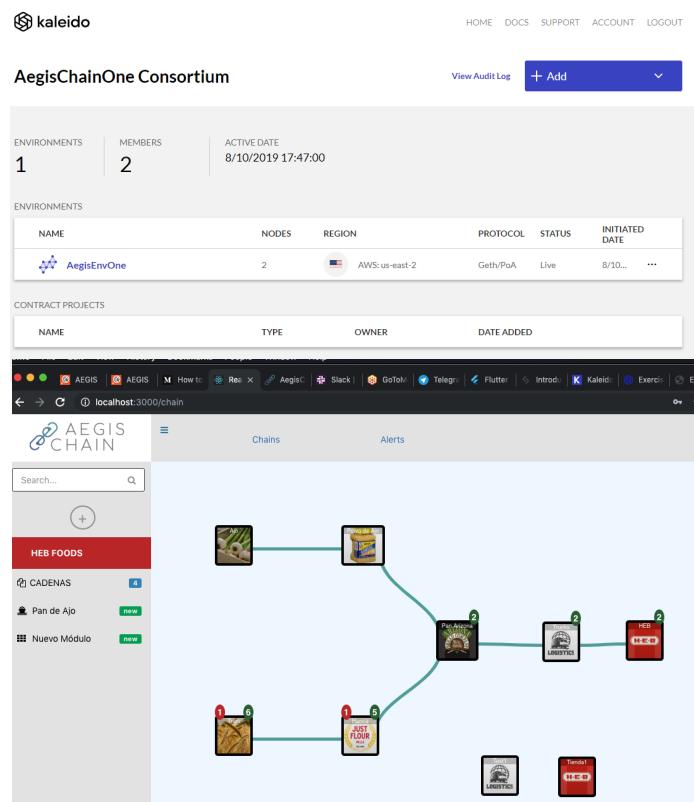


Development Technology Stack:

- Truffle Framework
- Ganache
- Visual Studio Code
- NodeJS 10.4
- Express
- Heroku's API hosting
- Kaleido's APIs

Code Repos:

Code is in private repo and protected by NDA.



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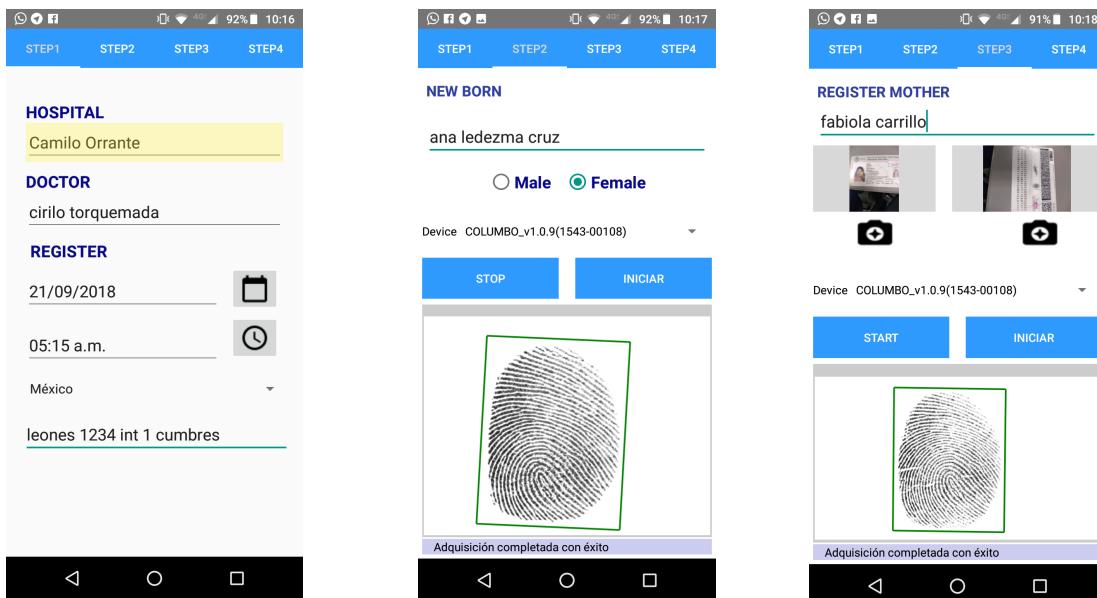
<https://www.linkedin.com/in/garvaz/>

BLOCKCHAIN NON DEVELOPMENT EXPERIENCE

- **GLOBAL SENIOR MANAGER EXECUTIVE FOR BLOCKCHAIN INITIATIVES AT NEORIS DE MÉXICO.**

In this Role I managed global initiatives to create proofs of concept using Blockchain Technology, coordinating teams in countries like: Spain, India, Argentine and Chile, helping them to develop their ideas .

I leadered a team of mexican developers to implement a proof of concept to **record newborns in the blockchain** using the parent's data, biometrics, doctors' and hospital's data:



Code Repos:

<https://github.com/garvazsof/NeoBCBabies>

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- CO-FOUNDER OF MONTERREY'S BLOCKCHAIN COMMUNITY.

As a co-founder of the Blockchain community I have performed some activities like:

- ❑ Organize regular meetups that are shown in the Facebook fan page:
<https://www.facebook.com/BlockchainMonterrey/>
- ❑ Blockchain & Tokenomics talk in the first meetup:
<https://www.facebook.com/BlockchainMonterrey/videos/240094709915222/>
- ❑ Invite Blockchain projects & coordinate their presentation in the meetups
- ❑ Organize remote calls with community members to debate about relevant topics in the blockchain ecosystem.

- JALISCO TALENT LAND 2019

I participated in the Blockchain Land talks in 2019, with a keynote about Decentralized Digital Identity and the use of this kind of technology to reduce the social inequality in latin american countries.



Video:

<https://www.youtube.com/watch?v=aORNRhK2fZ8&t=22502s> [6:15:12]

Keynote repos:

<https://garvazsof.github.io/BlockChain/research/Indentidad%20blockchain%20nacimiento.pdf>

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- **CONSENSUS 2019.**

I attended conferences in the consensus event and taken some of the workshops:

- Amazon Web Services Blockchain as a Service Workshop.
- Portis Ethereum Wallet Development Workshop
- AION Network, developing smart contracts with Java Workshop
- From Seed to Table: Live Projects in Food Provenance



I created a summary of all the attended conferences (in Spanish):

<https://garvazsof.github.io/BlockChain/research/Resumen%20de%20Consensus%202019.pdf>