Curriculum Vitae

Mariano Cueva 6-55
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SUMMARY OF QUALIFICATIONS

- Skillful in Big Data analysis and cognitive computing using Data Science, Machine learning and Deep learning techniques
- Experienced in the development and orchestration of platform solutions for backend, enterprise middleware and frontend for desktop, web and mobile
- Knowledgeable and certified in the development of decentralized applications on the Ethereum blockchain network
- Obtained industry experience as Senior Consultant through collaborating in the development of Fit-Bank Core System for financial institutions
- Knowledgeable in Semantic Web and Linked Open Data projects
- Proficient in software engineering methodologies for Agile development and continuous delivery
- Skillful as project manager and research assistant

EDUCATION

Certified Ethereum Developer

Consensys Developer Bootcamp

Oct 2018 – Jan 2019

An end-to-end Ethereum course designed to provide experienced developers with the knowledge and skills needed to become industry-leading Ethereum developers. This online course covers foundational Ethereum concepts and an introduction to smart contract and dApp development.

Final project: Decentralized Patreon using IPFS, EIP-1337 Subscriptions and metatransactions

MSc Web Science and Big Data Analytics

2015 - 2016

University College London, London, UK

Computer Science Department, Faculty of Engineering

Main topics: Information Retrieval, Data Mining, Data Analysis, Complex Networks Analysis, Cloud Computing, Machine Learning, Deep Learning, Natural Language Processing

Thesis title: "Learning to Recommend using a Deep Reinforcement Agent"

Bachelor degree in Systems Engineering

2006 - 2011

University of Cuenca, Cuenca, EC

Faculty of Engineering

Thesis title: "Hybrid mobile Application development to manage Bank Officers authorizations"

Cumulative qualifications: 89.24/100

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PROJECT EXPERIENCE

Integrated Solution to Publish and Exploit Bibliographic Resources in the Linked Data Cloud

Jan. 2014-Sept. 2015

CEPRA VII Wining project

http://www.cedia.org.ec/proyecto-plataforma-de-integracion-publicacion-y-consulta-integrada-de-recursos-bibliograficos-en-la-web-semantica

 Developed an integrated core framework to publish and exploit bibliographic resources in the Semantic Web

Web Graph-based Linked Data Query Builder and Executioner

Nov. 2014-

Computer Science Department, University of Cuenca, EC

Jan. 2015

• Designed a Web application prototype to build graph-based SPARQL federated queries

Semantic Repository of Ecuadorian Researchers

March 2015 -

RED CEDIA - Computer Science Department, University of Cuenca, EC

Dec. 2015

• Implement a semantic platform to allow the discovery of common research areas

RESEARCH EXPERIENCE

Postgraduate Research Assistant

Jun. 2017 -

Computer Science Department, Faculty of Engineering, University of Cuenca, EC

Present

- Collaborated in the research of General Processes for the Semantic Annotation and Enrichment of Electronic Program Guides using scrapping and natural language processing techniques. Built an evaluation method using pre-trained word2vec/fasttext word embeddings for performing semantic similarity
- Assisted in the research of state of the art techniques to develop/deploy and secure systems using microservices architecture
- Working on a research project to perform a comparative analysis of high resolution remote sensing imagery classification methods using spectral-spatial features and machine learning models
- Working on a project that uses Data Science to automate the systematic review process for the generation of quality research articles.
- Working on a chatbot agent to automate Helpdesk ticket processing for bottleneck processes within the IT department at University of Cuenca
- Scientific publications:
 - o Digital Repositories and Linked Data: Lessons Learned and Challenges, Iberoamerican Knowledge Graphs and Semantic Web Conference, 2019
 - A General Process for the Semantic Annotation and Enrichment of Electronic Program Guides, Iberoamerican Knowledge Graphs and Semantic Web Conference, 2019
 - Land Cover Classification Of High Resolution Images From an Ecuadorian Andean Zone Using Deep Convolutional Neural Networks And Transfer Learning, 2019

Graduate Research Assistant

Feb. 2014-

Computer Science Department, Faculty of Engineering, University of Cuenca, EC

Sept. 2015

• Assisted in the development of a prototype to deliver the publication of the Dspace digital repositories of the Ecuadorian Universities in the Linked Data Cloud

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- Developed and managed the LODGPlatform project to enable an easier way to integrate, publish and exploit any kind of data sources on the Linked Data Cloud
- Collaborated with a consultancy service, which aims to provide a base platform to manage BPM processes for the City Hall
- Designed and implemented a Web graph-based application to ease a Linked Data query builder and executioner for data federation and discovery
- Implemented a semantic repository of Ecuadorian academics, which will allow the discovery of common research areas and publications
- Cooperated with backend and frontend application development
- Outlined and planned the development lifecycle of the carried out projects
- Cooperated as software developer on different Linked Open Data projects

INDUSTRY EXPERIENCE

Senior Consultant Sept. 2010 - Feb. 2014

Soft Warehouse, fit-bank.com, Cuenca, EC

- Developed a Web-based Enterprise Platform modules for banks and financial institutions based on the client requirements
- Completed tasks on time using SCRUM as a way for agile development
- Helped resolving reported issues on the system using related tools for source code management and bug tracking
- Introduced new approaches and solutions to extend the current ERP technology stack, including improvements for the Enterprise service bus, financial core middleware, and frontend modules
- Cooperated with continuous learning for software development and system's user training, both for clients as the company staff
- Managed and collaborated with a multi-disciplinary team of software engineers, economists, MBAs and technicians
- Collaborated as Assistant Chief Technology Officer for "Fenicios" ERP project
- Interacted with customers and partners

Consultancy services

March 2014 – June 2014

Soft Warehouse, Cuenca, EC

- Solved development issues on certain modules of the Financial ERP for Banks and Production Companies
- Collaborated with ideas to solve and deliver customer requirements

Consultancy Services

August 2014 - October 2014

Cloud Services, Cuenca, EC

• Designed and developed a multi company and multi tenancy cloud system to manage electronic vouchers and transactions based on the Ecuadorian Government politics for sales markets

Full Stack Development

Dec. 2016 -

SimpleRide, Cuenca, EC

Present

• Developed a hybrid mobile application (android and iOS compatible) and a reactive backend platform for a community carpooling service

Gitcoin Bounties contributor

July 2018 -

Remote

Present

- Embark: Update Spanish Translation
 - o https://gitcoin.co/issue/embark-framework/embark/760/1083

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- Metamask: Update Account Options on Home Screen
 - o https://gitcoin.co/issue/MetaMask/metamask-extension/3461/1282
- Support Generating Embark Demo in VueJS
 - o https://gitcoin.co/issue/embark-framework/embark/937/1316
- Expand Sync Statistics (In progress)
 - o https://gitcoin.co/issue/aionnetwork/aion/661/1353
- Mobile Search Bar And Network Ui Bug
 - o https://gitcoin.co/issue/poanetwork/blockscout/952/1595
- Change All .Styl Files To .Scss And Replicate Same Structure As Status.Im
 - o https://gitcoin.co/issue/status-im/nimbus.status.im/20/1696
- Sort Leaderboard By # Of Bounties Solved
 - o https://gitcoin.co/issue/gitcoinco/web/2261/1260
- Ocean Bounty: Ocean Faucet Server For Trilobite Testnet
 - o https://gitcoin.co/issue/oceanprotocol/ocean-bounties/8/1863
- As An Avatar Builder User, I Want A Shuffle Button, So I Can Just Pick A Random Avatar Without Thinking
 - o https://gitcoin.co/issue/gitcoinco/web/3811/2451
- Add Blockchain Domain Resolution With Unstoppable Domains Tooling
 - o https://gitcoin.co/issue/zilliqalight/zilliqa-light-wallet/8/2676
- As A Gitcoin Team Member, I Want Kudos Purchases Tracked, So I Can Book That Revenue In The Database
 - o https://gitcoin.co/issue/gitcoinco/web/4122/2743
- Feature: Pending Transactions
 - o https://gitcoin.co/issue/matterinc/FranklinPay-iOS/56/2626
- Integrate 3Box Profiles Into The Giveth Application
 - o https://gitcoin.co/issue/Giveth/giveth-dapp/754/2902

SKILLS

Programming Languages/Markup: Java SE8/EE6, Scala, Javascript (ECMAScript 5 and ECMAScript 6), Python 2/3, C/C++, Solidity, Vyper, HTML5, CSS3, PL/SQL ANSI, SPARQL,

Machine Learning / Data Science libraries and frameworks: Scikit-learn, Tensorflow, PyTorch, Seaborn, numpy, pandas, Apache Hadoop, Apache Spark, OpenAI gym, Stanford CoreNLP, NLTK, genism, spacy, R

Data-related platforms: Pentaho Data Integration, JasperReports, Jaspersoft Studio, Tableau, LODRefine, Silk, Protégé, Elastic Search, Kibana, Logstash, OpenNER, Neo4j, Anaconda, Apache Kafka

Scrapping/Crawling frameworks: Scrapy, Selenium

General Frameworks: Bootstrap, jQuery, PrototypeJS, BackboneJS, UnderscoreJS, MustacheJS, Meteor, AngularJS, Angular 2, Angular 4, VueJS, React, NodeJS, Bower, OpenLayerJS, Hibernate, SpringBoot, D3js, Ionic2/3, NativeScript, Apache Cordova, Flask Microservices, Django

Application Server Administration: Apache2, Jboss EAP 6.x, Apache Tomcat 7, NGINX

CI/Deployment/Orchestration: Docker, Heroku, Kubernetes, Jenkins

Database Administration: MySQL Server, PostgreSQL, Oracle, MongoDB, Cassandra, Redis

Operating System Administration: Ubuntu, CentOS, Alpine Linux

Testing frameworks: JUnit, Karma, Mocha, Protractor, JBehave, Selenium, Serenity

Control System Management: Git, Mercurial, SVN Other Platforms: Liferay CMS, Apache Marmotta

Blockchain platforms: Ethereum, RSK, xDAI, Multichain, Hyperledger Fabric

Blockchain related: Truffle, Ganache, Embark, uPort, 3box, RimbleUI, ENS, OpenZeppelin, IPFS,

Ocean Protocol

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IDEs: Netbeans, Eclipse, IntelliJ IDEA, PyCharm, Sublime Text, Atom, Xcode, Android Studio,

Jupyter Notebook, Apache Zeppelin, Remix

Other Programs: Adobe Photoshop, Adode Illustrator, Gimp, Inkscape, Matlab, JOSM, Omnigraffle,

TeXShop

AWARDS & FUNDING

SENESCYT Scholarship to study a Master's programme in Europe
 TheGraph + CoinList Hackathon winner
 Best Paper Award at the 1st Iberoamerican Knowledge Graphs and Semantic Web Conference. Part of the II International Scientific Convention of Science, Technology and Society, "UCLV 2019"

REFERENCES

July 2019

Dr. Jorge Mauricio Espinoza Mejia, Director' Professor

BSLHack 2019 Hackathon winner

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