Manuela Fernanda Ceron Viveros

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Work experience

04/2022 – Current

WORKING STUDENT DATA ANNOTATION, *Natif.ai. Saarbrücken, Germany*

11/2019 – 04/2021

JUNIOR DEVELOPER, *Open Systems. Colombia*

Research and analysis of new technological trends to develop solutions for the design and implementation of a CIS software for Utilities.

Achievements:
- Implementation of OAuth 2.0 client credentials flow: Authorization server (Tomcat) and client (NodeJs).
- Web services implementation in Apache Tomcat.
- Pub-Sub EIP implementation using Apache Camel, Oracle AQ and Spring Boot.
- Experience with Oracle Database, Docker, GitLab.

06/ 2018 – 11/2019

PRODUCT DEVELOPMENT SPECIALIST, *Open Systems. Colombia*

Research and analysis of industry trends, consumer preferences to propose innovative solutions for a Utilities CIS software specification.

Perform functional tests of the product to ensure high quality.

Academic Experience

Education and training:

2021 – Current: Msc in Computer Science, Saarland University – *Saarbrücken, Germany.*

Covering topics on software engineering, statistics, image processing, computer vision with deep learning, data science, artificial intelligence, and cybersecurity in machine learning.

2013 - 2018: BEng in Mechatronics Engineering, *Universidad Autónoma de Occidente – Colombia.*

Mathematics, linear algebra, calculus, statistics, and physics applied to engineering. Object-oriented programming and applied computing in robotics, intelligent control, neurocontrol, signal and systems, dynamic systems, and machine learning. *Weighted GPA of 4.5/5.0*

Publications:

2018: Development of a Closed-loop Control System for the Movements of the Extruder and Platform of a FDM 3D Printing System. In NIP Digital Fabrication Conference (Vol. 2018, No. 1, pp. 176-181).

Society for Imaging Science and Technology (DOI: https://doi.org/10.2352/ISSN.2169-4451.2018.34.176).

2015 - 2017: Design and construction of a scaffold from a biomaterial that serves as support for mesenchymal stem cells (MSC) of bone marrow, for its potential use in the regeneration of the infarcted myocardium of a biomodel. Research Group in Technologies for Manufacture (GITEM), Universidad Autónoma de Occidente – Colombia.

Seminars and presentations:

2018: Development of a Closed-loop Control System for the movements of the Extruder and Platform of a FDM 3D Printing System. Printing for Fabrication 2018. In: The Society for Imaging Science and Technology and The Imaging Society of Japan, Dresden, Germany. September 23-27, 2018.

Awards and scholarships:

2020: COLFUTURO Scholarship-loan. June, 2020. Given by Foundation for the Future of Colombia.

2016: Academic Excellence Scholarship. July-Dec, 2016. Given by Universidad Autónoma de Occidente.

2016: Scholarship for study abroad: "BECAS IBEROAMÉRICA. ESTUDIANTES DE GRADO. SANTANDER UNIVERSIDADES" 2016. Given by Universia Colombia.

2013: Academic Excellence Scholarship. Jan-June, 2013. Given by Universidad Autónoma de Occidente.

Digital Skills

Programming: Python | SQL | C++, C# | Matlab | Java | R | Scala

Tools: GIT (GitHub) | PyTorch | Docker

Languages

Mother tongue: Spanish

Other language(s)	English	French	Portuguese	German
	C1	A2	A2	A1

Personal Interests

- Love to travel and experience different cultures.
- Enjoy swimming, hiking and practicing yoga.