

Andreina Cota Vidaurre



Cochabamba, Bolivia



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<https://github.com/andreina-covi>



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Experience

2020-Present

Freelance

Software Developer - Research

Researched about type prediction of a program variables on Pharo, programming language dynamically typed

Researched and developed detection and fixing of bugs using genetic programming

2018-2020

Semantics S.R.L.

Software developer - Research

Maintained and improved GraphQL on Pharo

Developed a test generation tool using genetic algorithms

Designed and built of a visualization tool for evolutionary programs

2017 - 2018

PIL Andina S.A.

Software developer

Developed and maintained the sales and distribution system of server using Java and Spring

Developed and maintained the sales and distribution system of mobile app using Android

Technique support for system users

Built reports based on database for different areas

Education

2018 Informatic Engineer
UMSS - Universidad Mayor de San Simon (5 years program)
Ranking: First of the class

Bachelor Thesis

Title Anomaly Detection of Individuals Daily Routine
Supervisor PhD. Eduardo Di Santi
Description The purpose of this system is to alert individuals for potential danger in situation opportunely. For this purpose it is necessary the user's geolocation information, clock time, among other information that is gathered using a mobile app. The gathered data is processed and a Machine Learning algorithm is applied to identify users routine patterns.

Research Project Participation

Title Drone-based Early Wildfire Detection
Description Project under of the direction Ph.D. Eduardo Di Santi. I was part of the "Software Factory" team, which was responsible for develop a drone-based system for detecting wildfires. In particular, I was responsible of developing a vision-based approach for fire recognition.

Publications

2020 TestEvoViz: Visual Introspection for Genetically-Based Test Coverage Evolution
Andreina Cota Vidaure, Evelyn Cusi Lopez, Juan Pablo Sandoval Alcocer, Alexandre Bergel.
Proceedings of 8th IEEE Working Conference on Software Visualization (VIS-SOFT '20).
Deviation Testing: A Test Case Generation Technique for GraphQL APIs
2018 Daniela Meneses Vargas, Alison Fernandez Blanco, Andreina Cota Vidaurre, Juan Pablo Sandoval Alcocer, Milton Mamani Torres, Alexandre Bergel, Stéphane Ducasse.
Proceedings of International Workshop on Smalltalk Technologies (IWST '18).
Visual automatic fire detection through the Histogram of Oriented Gradients and Support Vector Machine
2016 Andreina Cota, Evelyn Cusi, Carlos Escobar, Kevin Orellana, Patricia Rogriguez.
UMSA: Revista Investigación y Tecnología

Skills

- Linear Regression, Logistic Regression, K-Means Clustering, Support Vector Machines, Neural Networks, NLP, Genetic Algorithm, Genetic Programming
- Relational (MySQL, SQLite) and NoSQL (MongoDB) Databases
- Python, Java, PHP
- Pandas, Numpy, SciPy, Scikit-learn, OpenCV, Jupyter
- Django
- Linux system, Git

Additional Courses

2021	Machine Learning AI Saturdays La Paz
2020	Natural Language Processing Specialized Coursera program about NLP that includes four courses
2019	Introduction to Neural Networks, Genetic Algorithms, and NeuroEvolution Tutorial taken in Bolivian Summer School event, UCB (Universidad Catolica Boliviana), given by Ph.D. Alexandre Bergel
2019	Reinforcement Learning for Video Games Bolivian Summer School, UCB given by Ph.D. Julio Godoy
2019	Deep Learning A Specialized Coursera program that includes five courses
2016	Object Detection Coursera's course from Universitat Autònoma de Barcelona

Other

2014	ICPC Bolivia Participation in the International Collegiate Programming Contest - South America/South Regional
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Languages

Spanish	Mother tongue
English	Fluent