

EDUCATION

M.SC Business Administration

EAE Business School - Universitat de Barcelona
Barcelona - Spain

2024-Now

P.HD Informatics (Cum Laude)

Autonomous University of Barcelona
Barcelona - Spain

2014-2017

M.SC High Performance Computing, Information Theory and Security

Autonomous University of Barcelona
Barcelona - Spain

2012-2013

Database Specialist (Diploma Oracle GoldenGate)

Excelsis-Oracle University
Asunción-Paraguay

August 2012

Database Specialist (Diploma Microsoft SQL Server AS 2008)

Nucleo S.A
Asunción-Paraguay

PostGrade (Knowledge Engineering)

National University of La Plata
La Plata-Argentina

Database Specialist (Diploma of Oracle 10g R2 2008)

Catholic University "Nuestra Señora de la Asunción"
Asunción-Paraguay

Grade (Diploma of Computer Science)

Catholic University "Nuestra Señora de la Asunción"
Asunción-Paraguay

High School (Diploma of Informatics Bachelor) (Diploma of Informatics System Programmer) (Diploma of Computer Operator)

Colegio Técnico Nacional de la Capital
Asunción-Paraguay

SOFTWARE ENGINEER

Language Python, JavaScript, Java, C/C++, L^AT_EX, PL/SQL

Technology Git, NodeJS, React, Django, Flask RestAPI/Gateway, Celery, RabbitMQ, Slurm, SGE, Lustre, MongoDB, NFS, Clusters, Cloud, Linux, Workflows, Galaxy

Infrastructure AWS EC2, S3, SES, Azure, Scrum/Agile Methodology

WORK EXPERIENCE

ProcessControl S.C.C.L

Consultancy. www.processcontrol.es/

Lead Senior Engineer and Lead of Tech Training Programs.

Process Control provides high-quality global solutions in cloud computing and communications, looking to provide a complete suite of tools to achieve our customer's needs from the approach of

Apr 2023 -
Now

ERM, CRM, and cloud computing. We are Odoo partners with extended experience in consultancy

We work in an Agile environment to design and develop solutions to business problems through top technology. We contribute to the design; implementation; and testing of the software over an open-source Odoo platform.

In our training programs, we provide our team members the ability to increase their programming and architecture skills as well and we encourage them to share knowledge with each other.

Finally, these programs are open as packages for other partners and external collaborators.

Oct 2020 -
Jun 2023

UST Global S.A.U

Cybersecurity. www.ustglobal.es

Lead Senior Software Engineer and Back-end Specialist.

UST Global is a fast-growing digital technology company providing advanced IT services and innovative digital solutions to large companies around the world.

We work in a Scrum team to design and develop high-performance solutions. We contribute to the design; implementation; and testing of the software as well as collaborate with other software developers in the technology stack.

Jan 2021 -
Now

Universidad Nacional de Concepcion (Concepcion - Paraguay)

Faculty of Odontology - University Extension and Research

Professor and Board Member of Extension and Research Department.

Faculty of Science and Mathematics - Research

Professor and Member of Research Department.

Jan 2021 -
Now

Universidad Catolica (Paraguay)

Faculty of Science and Technology - Computer Science Engineering

Science Methodology Professor and Lead Researcher in High

Performance Computing

Jan 2020 -
Now

Universitat Oberta de Catalunya

Computer Science - Information Technology - BioInformatics Assistant

Professor

Introduction to Programming Languages. C/C++ structured programming, object oriented. Python for BioInformatics

Jan 2019 -
Oct 2020

IUL Instruments S.A.

Microbiological Control. www.iul-instruments.com Team

leader and Release Manager.

IUL Instruments provide microbiological control for the industry. Focus on innovating in the bio-sanitary field. As Senior Full-stack Software Engineer we use technologies as React, NodeJS, Flask, MongoDB, and MySQL tools. Specialist in high-performance computing, RestAPI and real time solutions.

Jan 2018 -
Jan 2022

ECAV & Asociados (Asuncion - Paraguay)

Accounts, Financial and Technology Consulting Chief

Technology Officer.

Coordination of resources of the IT group, guaranteeing quality, delivery times and budget compliance. Definition and specification of the objectives and requirements of the projects. Define the structure of the department, establishing the necessary resources and profiles, to achieve internal and external goals.

Jun 2017 -
Dec 2018

Mind The Byte S.L.

SaaS for Drug Discovery. www.mindthebyte.com

Strategic sector "SaaS for Drug Discovery" at www.mindthebyte.com

Head of Software Department and Full-stack Software Engineer.

Developing high-performance applications for cloud computing in the BioInformatics area using

AMAZON EC2 infrastructures. We use technologies as Django, React, NodeJS, Flask, Celery, RabbitMQ, MongoDB and MySQL tools. Specialist in high-performance computing, programming languages as Python, C, C++, JavaScript, HTML and control version with GIT technology.

Oct 2012-Jun
2017

Autonomous University of Barcelona

Computer Architecture and Operating Systems

Research Professor on High Performance Computing for Science Applications.

Researching on Multiworkflow Schedulers for Genome-Bioinformatic Applications. Galaxy Framework development and architecture extend for tool wrappers and execution through multiples distributed resource management system with DRMAA API. Shared Input and Temporal Data Files allocation Policy on storage hierarchy.

Núcleo S.A, Telecom Personal Paraguay

May 2010-
Sep
2012

Telecommunication Company - Systems Department

Database Administrator for Business Intelligence. Head of DB for BI

Department.

In charge of database administrators and nexus between BI Development Department and Systems Department

Núcleo S.A, Telecom Personal Paraguay

Dec 2009-Apr
2010

Telecommunication Company - Systems Department

Supervisor for Business Intelligence Products

Oracle, SqlServer, SSIS. Unix and Windows OS. Database healthy, backup, fault recovery specialist. Product deployment for client segmentation on business intelligence. Product impact factor on clusters

Núcleo S.A, Telecom Personal Paraguay

Aug 2009-
Nov
2009

Telecommunication Company - Business Department

Head of Systems Control for Business Intelligence Process. Performance analyses

Catholic University "Nuestra Señora de la Asunción"

Jan 2009-Sep
2009

System Administrator Unix / Windows

Salesian Congregation of Paraguay

Jan 2001-Dec
2001

System Administrator Unix / Windows

Salesian Institute of Philosophy

Feb 1999-Dec
2000

Computer Operator

PUBLICATIONS/SEMINARS/CONGRESSES/WORKSHOPS

VIII EDIN

2023

Encuentro de Investigadores (Co-Author and Lead Researcher: Desarrollo de una política de tolerancia a fallos en workflows científicos.)

https://www.encuentrodeinvestigadores.org.py/cronograma/Ciencias_Fisico_Matematicas_Ingenierias.pdf

IJPP Journal

2018

International Journal on Parallel Programming (Co-Author: A history-based Resource

Manager for Genome Analysis Workflows Applications on clusters with heterogeneous nodes.)

<http://doi.org/10.1007/s10766-018-0600-z>

PBIO

August 2017

International Workshop on Parallelism in Bioinformatics (Co-Author: A Resource Manager for Maximizing the Performance of Bioinformatics Workflows in Shared Clusters.)

Helsinki-Finland

FGCS Journal

April 2017

Future Generation Computer System Journal (Author: A Critical Path File Location

(CPFL) Algorithm for Data-Aware Multiworkflow Scheduling on HPC clusters)

<http://doi.org/10.1016/j.future.2017.04.025>

HQJForum 2017

April 2017

High Quality Journal Forum (Speaker: A Critical Path File Location (CPFL) Algorithm for Data-Aware Multiworkflow Scheduling on HPC clusters)

Oporto-Portugal

Complexis 2017

April 2017

International Conference on Complexity, Future Information Systems and Risk (Speaker:

A Data-Aware Multiworkflow Scheduler for Cluster on WorkFlowSim)

Oporto-Portugal

Complexis 2016 (Diploma Best PhD Paper Award)

April 2016

International Conference on Complexity, Future Information Systems and Risk(Session

Chair and Speaker: A Data-Aware Multiworkflow Cluster Scheduler)

Rome-Italy

Sarteco 2014

Sept 2014

Architecture and Computer Technologies Seminars (Speaker: Parallel Scientific Multi-

Workflow Execution on Galaxy-Based Clusters)

Valladolid-Spain

ICCS 2013

International Conference on Computational Science (Attendant)

Barcelona-Spain

CLEI 2009

Latin American Conference of Informatics (Attendant)

Pelotas-Brazil

CLEI 2008

Latin American Conference of Informatics (Attendant)

Santa Fe-Argentina

Jic-Cita 2008

Information Technology Seminars (Attendant)

Asunción-Paraguay

ETyC

2006-2008

Telecommunication and Computer Science Seminars (Attendant)

Asunción-Paraguay

FLISOL 2008

2008

License Free Software Workshop (Developer)

Asunción-Paraguay

IDEAS 2003

2003

6th Ibero American Congress of Requirement Engineering and Software Environment

(Attendant)

Asunción-Paraguay

LANGUAGES

Spanish (mother language)

Guarani (mother language)

English

Portuguese

Catalan