Eloy Adonis Colell

*M.S. in Biological Systems
And Bioinformatics*

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41 years old

Jobs Timeline

2024–2025 · **Full-Stack Developer & Founder**, *turnoflex.com*, Remote.
Built an automated scheduling platform with Python and React.js, integrating EHR functionality and LangGraph bots. Deployed on GCP, ensuring scalability and automation.

2023–2024 · **Senior Software Developer**, *Unbridaled.ai*, Remote.
I collaborated with the development and maintenance of 2 projects. It involved technologies like JWT, PostgreSQL, Flask, FastAPI, Docker Compose, Kubernetes, Helm, Digital Ocean, LogTail, Shopify, Quickbooks, and CI/CD.

2021–2022 · **Senior Software Developer**, *American European Insurance Group*, Remote.
I collaborated with the development and maintenance of some projects. It involved technologies like MySQL, PostgreSQL, Flask, Docker Compose, React, and GraphQL (Hasura).

2018–2021 · **Senior Software Developer**, *SquareTrade Go*, Remote.
I collaborated with the development and maintenance of some projects. It involved technologies like Flask, Celery, Objective C, SwiftUI, Docker Compose, AngularJS, React, and many others.

2020–2021 · **Bio Sciences Programming Concepts**, *Coordinator*, Remote.
I collaborated with the development and teaching of UNNOBA Master's degree class, into the Bioinformatics and System Biology plan.

2016–2017 · **Software Developer in Willdom SA**, *Willdom SA*, Remote.
I collaborated with the development and maintenance of the SquareTradeGo online sales platform (on web and iOS).

2012–2016 · **Lead Software Developer at GERSolar**, *Universidad Nacional de Luján*, Luján.
I have worked on developing an architecture of satellite image processing, which has to estimate solar radiation at ground level, for the whole area of Argentina.
Techonologies used: Python, twisted, netcdf, PyCUDA, CUDA, Heliosat2.

2010–2012 · **Researcher en el LIMIE**, Pergamino.
I collaborated on the development of a RRHH plaform for a local business. Also, I have collaborated in the development of a portable ultrasound device to detect distances and assist blind people to recognize some obstacles.
Technologies used: C (ARM-embbeded), LPC1343, Ruby.

2007–2009 · **Laboratory assistant at LIFIA**, *Universidad Nacional de La Plata*, La Plata.
I was part of the development team of a testing platform for a communication protocol commonly used in the slot machines. The platform had two sides the Control of the User Interface developed with Python, and the Communication Backend developed in C++; both sides were integrated through a Lua stack.
Languages used: C++, Python, Lua.

Publications

2018 · **MISTIC2: comprehensive server to study coevolution in protein families**, *Colell, EA et. al.*, Nucleic Acids Research.

Academic Formation

2014–2018 **Master Degree in Bioinformatics and System Biology**, *Universidad Nacional del Noroeste de la Provincia de Buenos Aires (UNNOBA)*, Pergamino.

2002–2013 **Licenciate Degree in Information Systems**, *Universidad Nacional de Luján*, Luján.

Academic Expertise

2016 **Machine Learning**, *Specialization course from the Stanford University through the Coursera website*.

It explains algorithm and math of some the automatic learning algorithms, explain the basics of the datamining and present the statistical pattern recognition.
Technologies used: Octave, Supervised Learning, Unsupervised Learning.

2012 **Calculate Solar Radiation through imágenes of a MSG satellite**, *Specialization course in satellite image processing at the University of Jaen (Spain)*.

We replicated a study already done on the area of Andalusia (Spain) using satellite images Meteosat Second Generation.
Technologies used: Python, Heliosat2.

2011 **Coaching and Leadership Seminar**, *Dictated by Lic. Fabiola Robin Marquez*.

This course introduces the types of leadership, motivation, influence, conflict / mediation / resolution, decision-making and coaching.

Knowledges

Modeling	**design patterns, refactoring, machine learning**	DB	**firebird, mongodb, mysql, postgresql, sqlite3**
Services	**apache, subversion, git, nginx**	Virtualization	**virtualbox, kvm, docker, docker compose, gcp, k8s**
Weak typing languages	**javascript (cypress, reactjs, angularjs, webpack), lisp, lua, perl, php, prolog, python (django, flask, fastapi, jwt, sqlalchemy, langgraph), ruby (rails 5.1), smalltalk, xsl**	Strong typing languages	**assembly, c/c++ (lpc1343), delphi, java (android), LaTeX, swift (iOS), objective C (iOS 11)**
Networking	**tcp/ip, route, nat, filters, iptables**	Utilities	**gnu/linux, osx, css, ssh, makefile, docker**

Languages

Español **C2**

English **C1**

References

Postdoc. Franco Simonetti **francolsimonetti@gmail.com**.