

Pablo Durán

Physics Student &
Software Developer

Skills

Software Development

<https://github.com/pabloduran016>

Work Experience

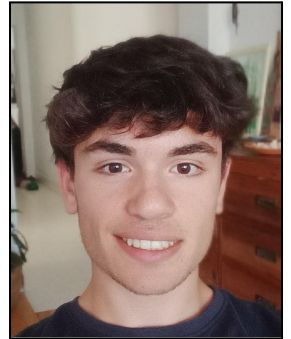
Pablo Durán

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28012 Madrid, Spain

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Email: pdrm56@gmail.com

Github Profile: [pabloduran016](https://github.com/pabloduran016)



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- **Languages:** native Spanish and C2 English level by Cambridge
 - **Science:** intermediate knowledge in Algebra and Calculus as well as Physics and Chemistry. Currently physics graduate with an average grade of 9.8.

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- **Python:** professional level and big experience with packages used in science and data analysis.
 - **Data science:** professional level in pandas, matplotlib, xarray, cartopy, numpy, dask, scipy, ...
 - **Game Development:** experience with 3D rendering and video games in pygame and OpenGL.
 - **Backend and Frontend:** several web pages built from scratch including back end in server for web applications using Javascript, Python (Flask and similar) and HTML+CSS..
 - **Servers and AWS:** big experience with servers in AWS and SQL databases.
 - **Others:** advanced level in MATLAB, C and C++, as well as office programs (Word, Excel, PowerPoint, ...) and LaTeX (overleaf).

Fiverr, freelancer

JULY 2021-SEPTEMBER 2022

Level One freelancer at fiverr, programming scientific simulations, building web pages and videogames and tutoring. Over 40 orders with 5 star reviews on all of them.

MarketAlgoRhythm, developer and partner

DECEMBER 2021-NOW

As a result of completed Fiverr orders I was asked to participate in an ongoing startup called MarketAlgoRhythm. We are building an app to alert customers of possible buying and selling opportunities in the stock market by analyzing chart patterns. My main task is to implement time series analysis and build the webpage and the server on AWS.

Spy4Cast, author

AUGUST 2021-NOW

Spy4Cast is a climate prediction tool based on a discriminant analysis statistical model. In a collaboration with M^a Belen Rodriguez de Fonseca from UCM, we are writing a paper on its implementation in Python. See <https://spy4cast-docs.netlify.app/>.

SmartLoadManagement, software-designer

SEPTEMBER 2022-NOW

SmartLoadManagement is a software designed to optimize the electric cost of a household by implementing particle system and genetic optimization. It is a project under development right now and I am in charge of its implementation in Python.

Registered as self-employed in Spain Social Security System

DECEMBER 2022-NOW

Education

UCM, College student

SEPTEMBER 2022-NOW

Studying Physics at the moment in *Universidad Complutense de Madrid*. Currently average grade of 9.8.

IES FORTUNY, Secondary School and High School student

SEPTEMBER 2016-JUNE 2022

Secondary School and High School studies with honors achieving a mark of 13.789 / 14 in EVAU (university access exam)

Training

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- **Programming and Software Design:** self-taught with YouTube videos and online courses (EDUTIN Python course, for example).
 - **English:** bilingual school + exchange with York in 2016 + PET and ADVANCE Cambridge exams

Achievements

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- Graduated **with honors** in Secondary School and High School.
 - Grade A in **ADVANCED Cambridge** exam achieving **C2** Level

Other

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- Currently a part of **field and indoor hockey** Club *SPV Hockey Complutense Sanse* at national level
 - Playing **classical and electric guitar** since 2016