PABLO BIEDMA NUNEZ

SOFTWARE ENGINEERING

DETAILS

PHONE
+34603797882

EMAIL
pablobie00@gmail.com

LINKS

Personal Website

LinkedIn

Github

SKILLS

Java ●●●●●

Python ●●●●●

C++ ●●●●●

SQL & NoSQL ●●●●○

JavaScript ●●●●●

Algorithm & Datastructures ●●●○○

Machine Learning ●●●●○

Automated Testing ●●●●●

Computer Networks ●●●○○

Computational Intelligence ●●●●○

Scala ●●●●○

PROFILE

When I was in high school, I used to make movies as a hobby. I would write screenplays, call some friends, start recording, and edit everything. What I realized is that as much as I loved movies, I liked creating something new, something from scratch and on my own. That is the reason why I started programming.

When I turned 18, in 2018, I decided to go abroad to pursue a career in programming so I moved from Spain to The Netherlands to study Computer Science at the TU Delft, one of the best universities in Europe.

Since that moment, so many things have happened, I gave a TED talk, I won pitching competitions, went to conferences, courses, learned many more programming languages and cool stuff during my studies...

But after all, I still have the same passion, the same passion for creating new things as when I was just a kid making movies.

EDUCATION

Bsc Computer Science & Engineering, Delft Technical University — Delft, Netherlands
Sep 2019 — Present

Baccalaureate, "Colegio Los Pinos" — Algeciras, Spain
Sep 2019 — Jun 2019

Average grade: 9.35/10

EMPLOYMENT HISTORY

Data Insertion in Bitcoin Blockchain, Europol — The Hague, Netherlands

Sep 2019 — Sep 2019

I conducted a research for Europol about Data insertion in Bitcoin blockchain mechanisms and how this can be abused by criminals. I ended up being rewarded for my outstanding performance after developing a web app with this technology.

Frontend Developer, Maastricht Disrupt — Maastricht, Netherlands

Oct 2019 — May 2020

I took over the Web & Tech department from Maastricht Distrupt.

Chair of the Board of Directors, Lijst Bèta — Delft, Netherlands
Oct 2019 — Jul 2020

I became the chair of the Board of Directors of the Student Council Party Lijst Beta at the TUDelft university.

In this important charge I had several responsibilities striving to achieve a better education in campus.

INDEPENDANT PROJECTS

Respire
Sep 2019 — Present

We propose a sensor network of air quality monitoring devices which is relatively inexpensive (€20), self-powered, and small enough to be attachable to any moving infrastructure (deployed on cars, buses, etc.). Respire will be an IoT device that consists of particulate matter counters: PM 2.5 and PM 10, three gas sensors CO, NO and Ozone, 6W solar panel with an ultracapacitor, GPS for location, and LoRa module for reporting data. This device offers twin benefits: (i) for individuals and industries, it functions as a traditional vehicle tracker for fleet management and vehicle theft (ii) for governmental organizations, it provides a highly localized air quality index(AQI) of a particular area using the sensors. Further, being deployed on mobile infrastructure makes it suitable to send air pollution data of the updated location as the vehicle moves. These sensors, forming an interconnected network of nodes, are used to build a pollution map of the entire city. Thus, providing data in real-time and at high spatial resolution. By overlaying this live environmental data with live transportation data, we can modify our traffic through adaptive and intelligent traffic signaling to reduce emission, and reduce air pollution concentration levels in extremely targeted areas. The same insights are also fed to a forecasting model along with various atmospheric parameters to suggest healthy routes and timings with the least pollution levels to the general public and bicyclists.

Robotics Against Natural Disasters
Jul 2017 — Present

I conducted a Research together with ”La Salle University” in Spain and afterwards I built a prototype which is based on a ”bioinspiration” from nature and it can detect pressure variations making it possible to prevent natural disasters. After building this working prototype I ended up writing a paper and learning so much from this experience receiving several awards. I gave a TEDx Talk on this topic.

Roots
Sep 2020 — Present

I feel truly proud, we created "ROOTS", a platform to reduce food waste and save money by using deep learning for improving from past orders. I feel so proud because in this project we've worked faster and more efficiently than ever before and we ended up with an impactful result. We learned a lot about time management during this project.

GregTheGroupPlant
Oct 2020 — Present

The sudden shift to remote collaboration has even worsened many of the existing problems in group projects.
Greg the group plant is a gamified way to visualize your team’s health.
It plugs into existing tools you already use
And lets you know how your team’s health is doing
The plant is there, using zoom meetings to remind you, to let everyone take turns to speak. If you do that, Greg will grow and thrive.

Your project group stats such as speaking time, speaker rotation aggregated across multiple channels are available on a web dashboard. If you do well, Greg is happy. But if the group dynamics are off, Greg is unhappy and suggests changes to make to get the group back on track.