

Pau Escofet i Majoral

Computer science student and researcher in Universitat Politècnica de Catalunya (UPC). Proficient in C++ and Python. Outside university, I enjoy working on personal projects and learning new technologies.

EXPERIENCE

Polytechnic University of Catalonia — *Undergraduate Researcher*

August 2020 - Present

Currently working in the Computer Science Department of UPC in multi-level algorithms and methods to extract regularity, aiming at producing better layouts for circuits. Languages: C++ and Python (Advanced data structures and algorithms).

Nakima, Barcelona — *Full-Stack developer*

April 2019 - May 2020

Partial job while studying Computer Science where I developed full-stack web applications using MEAN (MongoDB, Express, Angular and Node.js) in a Linux environment. I also developed multiple Alexa skills and mobile applications.

IES Montpellier, Montpellier — *Researcher*

July 2016 - August 2016

Research project affiliated to CNRS, QNOSS (Quartz-based Nanomaterials On Silicon for a Sensorized world), in IES Montpellier led by Dr. Adrian Carretero.

EDUCATION

Polytechnic University of Catalonia — *Computer Science*

September 2017 - January 2022 (expected)

Major: Computing.

Honors in: Logic, Artificial Intelligence

PROJECTS

Hate Speech — *Machine Learning (Python)*

Designed and trained a Machine Learning model capable of detecting whether a sentence contains hate speech or not with a 93% of accuracy.

Pandemic Simulation — *Algorithms (Java Script)*

Developed a simulation and visualization of how a disease spreads through the population, based on the SIR model. Project done in Hack Kosice 2020.

Bully Police — *Full-Stack Web (Java Script / Python)*

Developed a webpage (frontend and backend) to show Twitter and Reddit posts that contain hate speech using Amazon Comprehension.

All other personal projects are explained in my portfolio <https://pauescofet.com/>.

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SKILLS

Programming Languages

C++ (Proficient),
Python (Proficient),
Java Script (Advanced),
Java (Advanced),
Haskell (Intermediate),
Prolog (Intermediate)

Machine Learning & AI

Scikit Learn (Python), CLIPS

Full Stack

HTML, CSS, Node.js, Express,
MongoDB, Angular, SQL

Other coursework

Data structure & Algorithms,
OO Programming, Parallelism,
Linear Algebra, Optimization,
Unix/Linux environment.

AWARDS

University Ramon Llull

Chemistry winner project with the Nanostructure engineering of epitaxial piezoelectric α -quartz thin films on silicon research.

Cangur Mathematic competition

Best 2,5% of 18.976 participants of Catalonia.

Hackathons

- Winner of the Everis challenge in Mamuthack 2019.
- 3rd position in Hack Kosice 2020.

LANGUAGES

English, Spanish, Catalan.

ONLINE COURSES

Python (Udemy)
Ethical Hacking (Udemy)
Machine Learning (Udemy)