Paul Barthe

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🖥 https://paulbarza.github.io/Website/
🌐 PaulBarZa
23 years old

Education

2020–2022	**Master degree, Computer engineering**, *EPF engineering school*, Sceaux, France.
2017–2020	**Bachelor degree, General engineering**, *EPF engineering school*, Sceaux, France.
2014–2017	**Highscool diploma, Mathematics speciality**, *Allende*, Caen, France.

Experiences

2022/10–Now — **R&D engineer**, *Datexim*, Caen, France.
Training and starting work on research issues.
Development Backend and Frontend.
Using Python, Vue3 and Django.

2022 — **End of study internship (6 months)**, *Cytomine*, Liège, Belgium.
Integration of machine learning solutions in the open source platform Cytomine, allowing the analysis of very large medical images.
Development Backend and Frontend.
Using Python, Java (Spring Boot), VueJS and Docker.

2021 — **Front end development**, *Gaming Squad*, Paris, France.
Development of a heavy client for the company Gaming Squad, a social gaming and ethical network.
Developing in ReactJS.

2020 — **Intern in web development (6 months)**, *Actility*, Caen, France.
Developing a web application to drive a LoRaWAN network.
Developing backend in Golang and frontend in Angular.

Projects

2021 — **Sushi classification and generation**.
Development of a machine learning model for sushi classification into 50 types.
Convolutional neural network for information extraction followed by random forests.
Using a generative adversial network for generation.
Using Python, Tensorflow and Sklearn.

2021 — **Minesweeper AI**.
Development of two machine learning models playing the minesweeper game, the first by constraint satisfaction and logic and the second by a deep reinforcement learning method.
Using Python and Tensorflow.

2021 — **My website**.
Developing a website to introduce myself.
Using HTML/CSS, JavaScript and NodeJs.

Technical Experiences

Proficient With

Languages	Python, Java, Typescript, JavaScript, HTML, CSS
Technologies	Tensorflow, Keras, Sklearn, Matplotlib, Numpy, Angular, Docker

Have Experience With

Languages	C++, C Sharp, Golang, Kotlin, SQL, PHP, Matlab, LateX
Technologies	Airflow, Prefect, MySQL, Android Studio, Echo, Symfony, Unity

Main courses

EPF engineering school, Sceaux

Data science	Big Data, Artificial intelligence, Machine learning, Neurals networks, Logic and probabilities, Statistics.
Computer science	Python, C++, Java, Python, Advanced software engineering, Computer Network Fundamentals, Cryptography, Introduction to quantum computing, Internet of things, Cybersecurity.
Others	Calculating processes, Electromagnetics, Physics, Thermodynamics, Mechanics, English, Spanish.

Certifications

2022	**Machine Learning** - **Standford University**.
2021	**TOEIC** - **895/990**.

Activities

2019	**Eloquence Association**. Head of communication of the EPF engineering Eloquence association
2019	**Gaming Office Association**. Head of the poker part of the EPF engineering Gaming Office association
	Current Hobbies. Artificial Intelligence, Machine learning, Programming, Running, Swimming, Biking, Piano, Go game.