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<https://paulbarza.github.io/Website/>

PaulBarZa

23 years old

Paul Barthe

Education

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

Experiences

- Present **Intern in web development (6 months)**, Cytomine, Liège, Belgium.
Development of machine learning solutions integrated in the open source platform Cytomine, allowing the analysis of very large medical images.
Development Backend and Frontend.
Using Python, Java and VueJS.
- 2021 **Front end development**, Gaming Squad, Paris, France.
Development of a heavy client for the company Gaming Squad, a social gaming and ethical network.
Working in team of 5 people.
Developing in ReactJS.
- 2020 **Intern in web development (6 months)**, Actility, Caen, France.
Developing a web application to drive a LoRaWAN network.
Working in team of 8 people.
Developing backend in Golang and frontend in Angular.
Learning how a LoRaWAN network works.

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 adversarial 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, VS Code

Have Experience With

Languages C++, C Sharp, Golang, Kotlin, SQL, PHP, Matlab, LaTeX
Technologies Eclipse, MySQL, Android Studio, Echo, Symfony, Unity

Main courses

EPF engineering school, Sceaux

Data science Big Data, Artificial intelligence, Machine learning, Neural 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 (TOEIC 895/990), Spanish.

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, Piano.