

# Paul Barthe

+337 81 09 14 85  
p.barthe441@hotmail.com  
paulbarza.github.io/CvPaulBarthe/  
PaulBarZa  
22 years old

## 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

- 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

### Minesweeper AI.

Developing two machine learning models to play Minesweeper game, one by Constraint Satisfaction and Logic and one Double Deep Q-Learning model.

Using Python and Tensorflow.

Writing a document to explain my work and why I used:

- Constraint Satisfaction and Logic
- Reinforcement Learning
- Double Deep Neural Network
- Experience Replay
- Shaping
- Transfert Learning

### Android application.

Developing a simple application that allows you to scan and get info on food products.

Using Kotlin and Android Studio Code.

### My website.

Developing a website to introduce myself.

Using HTML/CSS, JavaScript and NodeJs.

---

## Technical Experiences

### Proficient With

Languages Python, Typescript, Golang, JavaScript, HTML, CSS, JSON  
Technologies Angular, Echo, Tensorflow, Keras, Matplotlib, Numpy, Git, Visual Studio Code, Bootstrap, Ubuntu

### Have Experience With

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

---

## Main courses

### EPF engineering school, Sceaux

Machine learning Classification, regression and optimization, Deep | Convolutional | Recurrent neural network, Over-fitting and regularization.  
Computer science Programming in C++, Java, Python, Computer Network Fundamentals, Cryptography, Web design, Introduction to quantum computing, Security.  
Course next year Data science and Big Data, Advanced software engineering, Artificial intelligence, logic and probabilities, Internet of things, Cybersecurity.  
Others Statistics, Probabilities, 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.**

Machine learning, Programming, Running, Swimming, Cycling, Piano.