

# Nouamane Tazi

## AI & FullStack Developer

✉ nouamane.tazi@student-cs.fr ☎ (+33)766595527 🌐 nouamanetazi.github.io 🐙 nouamanetazi

## Relevant Experience

### AI & FullStack Developer @ Paris Digital Lab

Feb 2020 – Present // Paris, France

Agile prototyping at the @ParisDigitalLab Incubator, developing three minimum viable products in a 7-week constraints for three different real-world companies, using scrum methodology.

♦ Project 1: @ ALSTOM

Implementing BERTQA for machine reading comprehension (MRC) on a large dataset of technical documents.

### Researcher @ CentraleSupélec Research Track (CS+R)

Sep 2018 – Present // Paris, France

- ♦ Advisor : Dario Prandi.
- ♦ Project : Coding a ResNet to help explaining geometric visual hallucinations.
- ♦ Skills: Expertise in thematic scientific research, development of experimental skills and techniques, theoretical approaches and digital simulation, written and oral communication skills, teamwork and conducting a research project.

### IT President @ Math&Maroc

Sep 2019 – Present

Managing an IT Team on various automatic tasks. Founded by previous International Mathematical Olympiad (IMO) contestants, Math&Maroc is a nonprofit organization which helps brilliant moroccan students prepare for international math competitions.

### Math Tutor @ Math Summer School - CentraleSupélec

Aug 2019 // Vichy, France

Teaching international students the prerequisites needed for math in CentraleSupélec:

- ♦ Real analysis: limits, derivative, Taylor series, integration, linear differential equations, metric topology, real series.
  - ♦ Algebra: equivalence relations, definition of groups, rings, fields. Vector spaces (the abstract point of view), matrices, determinants. Polynomials and rational fractions. Reduction of endomorphisms, and bilinear algebra.
- All this is theory-oriented.

### Co-Founder of CentraleSupélec's AI Club @ Automatants

Dec 2018 // Paris, France

Part of the founding team of "Automatants" the AI club of CentraleSupélec.

## Skills

**ML & Data Science :** Scikit-learn, Tensorflow, Keras, Tensorboard, PyTorch, Pandas, OpenCV

**FullStack :** React, Node.js, Express, AnimeJS, React-spring, Vue.js, PHP, JQuery

**Others :** Git, Gitlab, SQL, MongoDB, Docker, Adobe Photoshop, Adobe Illustrator, Scrum Methodology

## Most Proud Of

- ♦ French Government Scholarship of Excellence awarded to the first 10 candidates of the french Grandes Ecoles' contests.
- ♦ Talk at Discovery Palace presenting my research project to a wide spectrum of ages, in a simple and interactive way.
- ♦ Each and every one of my projects.

## Education

### Engineering studies @ CentraleSupélec

2018 – now // Paris, France

In-depth learning of computer science, general physics and mathematics. As well as acquiring project developing and management skills.

### Advanced mathematics, physics and engineering classes "prépa"

@ Moulay Youssef Highschool

2016–2018 // Rabat, Morocco

Intensive courses in Maths, Physics and Computer Science preparing for the french Grandes Ecoles.

## Projects

### NLP Project

Jan 2020 // Paris, France 🐙

Topic Modeling using LSI, LDA and NMF methods to determine the dominant topics in a bundle of research papers, and finding the most relevant paper for each topic, after retrieving the data from the web and preprocessing it.

### Portfolio Website

Jan 2020 // Paris, France 🐙

A portfolio website built using React, GatsbyJS, AnimeJS and React-Spring for animations, and Docker.

### Autonomous Driving Robot @ CentraleSupélec

Nov 2019 // Paris, France 🐙 📺

Programming a Robot using a Raspberry Pi, an Arduino Uno, a Pi Camera and an Ultrasonic Sensor.

### Pictionary

Sep 2019 // Paris, France 🐙

Web App built with React, Node.js, Express, MongoDB, Docker where one user draws a word and the other users should try to guess it.

### Machine Learning Project @ EDF x CentraleSupélec

June 2019 // Paris, France

- ♦ Preprocessing enormous amount of data provided by edf.
- ♦ Use various ML methods to predict the power.
- ♦ Present the solution to the client in a clean way. (An app and website prototypes were delivered)

## Extracurricular Activities

- ♦ Volunteering at AMGE-Caravane by giving a series of Talks in five moroccan cities to prépa students aiming to help them prepare for the french Grandes Ecoles' contests.
- ♦ Pianist since age 8.