

# PABLO TALAVANTE DÍAZ

Madrid, Spain

+34 619 937 889 ♦ pablot94@gmail.com ♦ @imaginarybrut

## WHO AM I

---

I'm the kind of people who thinks Mathematics are fun. After dropping Architecture after two years that opened my mind, I focused my studies in Industrial Engineering on areas that have to do with mathematics and computer science, mainly regarding control theory, programming and optimization. I taught myself Machine Learning and Deep Learning, along with more advanced Mathematics and the most important web technologies. I also have passion for the visual arts and music (I played the bass in a band called Noise Nebula), specially when they intersect with technology and science. I like taking analog pictures, drawing, and making computational art procedurally and using neural nets.

Currently I'm focusing my studies on the state-of-the-art AI and optimization methods, the programming skills needed to implement them and setting them in a production-ready environment, and applying that knowledge to real-world problems. I'm also the main Deep Learning mentor at AI Saturdays Madrid, a non-profit organization which aims to democratize AI to everybody.

## EDUCATION

---

<b>Master's Degree in Systems Engineering and Control</b> Universidad Complutense de Madrid / UNED	since Oct. 2018
<b>Bachelor's Degree in Industrial Technologies Engineering</b> Universidad Carlos III de Madrid Intensification in Automation and Electronics	Sept. 2014 - Oct. 2018
<b>Data Science and Big Data Analytics</b> Massachusetts Institute of Technology [MIT xPRO - online]	Oct. 2017 - Jan. 2018
<b>Big Data Visualization Course</b> Synergic Partners and Fundación Telefónica	Sept. 2017 - Nov. 2017

## PROFESSIONAL EXPERIENCE

---

<b>Sounditi</b> <i>Data Scientist</i> <ul style="list-style-type: none"><li>· Ideated and formalized the general concept in collaboration with the founder</li><li>· Carried on several interviews in order to form the technological team</li></ul>	since Nov. 2018
<b>U-Care Digital Health</b> <i>Machine Learning Engineer</i> <ul style="list-style-type: none"><li>· Developed a glucose prediction system for diabetic patients and an API for its use from an external app</li><li>· Developed an ECG classifier using convolutional neural networks</li><li>· Collaborated with Vall d'Hebron Hospital and CSIC (Centro Superior de Investigaciones Científicas)</li></ul>	July 2018 - April 2019
<b>Synergic Partners (a Telefonica Company)</b> <i>Professional Internship - Full Stack Developer</i> <ul style="list-style-type: none"><li>· Developed an internal innovation project for data visualization with React.js</li></ul>	Feb. 2018 - March 2018
<b>Aula de las Artes - Universidad Carlos III de Madrid</b> <i>Extracurricular Internship</i>	Jan 2016 - Dec. 2016

## AI EXPERIENCE

---

Advanced Keras User (Functional API)  
Data generators for huge datasets  
MLP, CNN, LSTM, Autoencoder, (DC)GAN  
Neural weights visualization  
Architecture and Hyperparameter tuning heuristics  
Genetic Algorithms and Evolutionary Strategies  
Principles of Reinforcement Learning and NLP

## COMPUTER SKILLS

---

Proficient Python: scikit-learn, Tensorflow, Keras, pandas, numpy, pymongo, opencv  
Intermediate JavaScript, C, C++ and Processing (based on Java)  
Web Tools: React.js, HTML5, CSS3, JavaScript, Bootstrap, Flask  
Excel, Tableau and Carto

AutoCad (2D drawing), Rhinoceros and V-Ray (3D modeling and rendering)  
Grasshopper (3D parametric design) and Unity (graphics engine)  
Adobe Photoshop, Final Cut Pro X and Logic Pro X (image editing, video and sound)

## FURTHER TRAINING

---

<b>Move37 Siraj Raval's Reinforcement Learning Course</b> The School of AI	2018
<b>Andrew Ng's Machine Learning Course</b> Stanford University	2017
<b>Crash course on Game Development</b> CEV Madrid (30 hours)	2015
<b>Music production course</b> School Overtonica (50 hours)	2014
<b>Grasshopper and parametric design course</b> ETSAM (30 hours)	2013
<b>Course on Architecture and Digital Design</b> Architecture University of Wroclaw (50 hours)	2013
<b>Digital and Analog Photography course</b> ETSAM (30 hours)	2013

## VOLUNTEERING

---

<b>Deep Learning Mentor</b> AI Saturdays Madrid	2019
<b>Processing Mentor</b> Medialab Prado	2018

## LANGUAGES

---

Spanish - Native  
English - Advanced  
Japanese - Elementary  
French - Elementary