

## ABOUT ME

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I am a Informatics Engineering student at Universitat Politècnica de Catalunya (BarcelonaTech), currently specializing in Computing. I am reliable, hard-working, and I'm nice to work with. I'm polite, meticulous, effective and efficient.

Besides from AI and Computer Vision, I am passionate about smart mobility and transportation, urbanism and city planning, and sustainability.

## EDUCATION

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- **Universitat Politècnica de Catalunya** Barcelona  
Bachelor degree in Informatics Engineering *Sep. 2015 - present*  
*Specialization in Computing*
- **Generalitat de Catalunya** Barcelona  
*Top 5 result at University Access Test + Honourable Mention* *Jun. 2015*

## COMPLEMENTARY COURSES

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- **École Polytechnique Fédérale de Lausanne** Coursera MOOC  
*Management of Urban Infrastructures* *Jul. 2017*

Challenges and objectives of urban planning, stakeholder interests, interrelation between different urban systems. Focused on energy and transportation system.  
Performance indicators, urban sprawl and new mobility needs.

- **École Polytechnique Fédérale de Lausanne** Coursera MOOC  
*Smart Cities – Management of Urban Infrastructures* *Jul. 2017*

Focused on transition in socio-technical systems to the new data layer between physical and services layer. Addressing data layer challenges and long-term impact of decisions.  
Service integration, universality, accessibility to high-quality service (digital divide).

- **Velneo, S.A.** Vigo  
*Velneo V7 development course* *Jul. 2013*

Velneo V7 is a platform to develop business applications.  
I can develop management software such as ERP, CRM, POS... and deploy it using SaaS and PaaS paradigms. All applications are multi-platform, multi-language, and use cloud computing.

## PROJECTS

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- **FirstAid**

*Finalist position at HackUPC Fall 2017, in Barcelona.*

A health assistant bot. It is able to identify some eye / mouth / skin diseases via picture. You can receive helpful information and live infection alerts in your area.

I built the image classification system using *Tensorflow*. I used *Mobilenet*, a lightweight *convolutional neural network*, and trained it using several image datasets.

- **HubConnect**

*Winner of Jury Prize at CopenHacks Spring 2017, a hackathon by Microsoft, in Copenhagen.*

Mobile app which suggests you candidates to a job position depending on how you assess their GitHub profiles, in a Tinder-alike style.

I built the *neural network* from scratch. In fact, this project was originally intended to learn about neural networks, but it ended up working pretty well.

## SKILLS

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- I program in Python, C++ and Java. I have experience with C, Prolog, Haskell, x86 assembly and Verilog. Also basic knowledge of R and MatLab.
- In AI field: experience with ontologies, CLIPS and PDDL.  
Local and heuristic search algorithms. Basic SPARQL knowledge.
- Native Catalan and Spanish speaker.  
Advanced English: CAE 197 / IELTS 7.5 / CEFR C1 – Grade B.
- I attended a general design course.
- Reached 5th / 3rd Professional Grade in Music with trumpet and piano, respectively.
- I redesigned some streets and avenues of my natal town to optimize space used.