

# Alberto Montes

COMPUTER SCIENCE STUDENT

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“The best way to predict your future is to create it.”

## Education

### Master in Computer Science

SWISS FEDERAL INSTITUTE OF TECHNOLOGY (ETHZ)

Specialization in Computer Vision and Machine Learning/AI

Zürich, Switzerland

Sep. 2016 - Present

### Bachelor in Science and Technology in Telecommunications

POLYTECHNIC UNIVERSITY OF CATALONIA

GPA – 9.0/10

Barcelona, Spain

Sep. 2011 - Jul. 2016

### Bachelor of Engineering in Industrial Technologies

POLYTECHNIC UNIVERSITY OF CATALONIA

GPA – 8.7/10

Barcelona, Spain

Sep. 2011 - Jul. 2016

## Experience

### Backend Engineer

VERSE TECHNOLOGIES

- Implemented RESTful API server for easy to send money mobile application (Verse in Apple App Store and Google Play Store).
- Built and deploy infrastructure using Docker containers.
- Writed unit tests over the codebase.
- Developed a Payment module which integrates with RedSys (a Payment Gateway in Spain).
- Worked on multiple tasks like async task scheduling, automatic email composition, code profiling, robust web robots.

Barcelona, Spain

Oct. 2015 - Jul. 2016

### OpenDaylight Project

SUMMER INTERN

- Implemented a GUI that simplifies provisioning, programming, and visualization of network overlays using the LISP Flow Mapping service from Cisco in the SDN open source project OpenDaylight.
- Invited to attend the OpenDaylight Summit 2015 in Santa Clara (USA) with all the expenses covered.

San Francisco, USA

Jun. 2015 - Sep. 2015

## Research

### Temporal Activity Detection in Untrimmed Videos with Recurrent Neural Networks

BACHELOR THESIS

- The thesis explores the use of Convolutional Neural Networks and Recurrent Neural Networks to classify activities in videos and temporally localize this activities.
- Participated in *ActivityNet Large Scale Activity Recognition Challenge* at CVPR 2016.
- The work was presented at *NIPS 2016 Workshop LSCVS* winning the *Best Poster* award. Project Link

Barcelona, Spain

Feb. 2016 - Jul. 2016

### Video Object Segmentation

MASTER THESIS AT COMPUTER VISION LAB ETHZ

- The thesis explores interaction between the point regression techniques and the dense prediction techniques, specifically in the field of video object segmentation.
- Developed a web interface for interactive video object segmentation in real time. In addition can be used to visualize segmentation results.

Zürich, Switzerland

Jul. 2017 - Present

## Publications

2016

**A. Montes**, A. Salvador, S. Pascual, and X. Giro-i-Nieto. Temporal Activity Detection in Untrimmed Videos with Recurrent Neural Networks. In *arXiv:1608.08128*

UPC, Barcelona

## Skills

<b>Programming</b>	Python, Java, C/C++, Matlab, R, SQL, $\LaTeX$
<b>Numeric &amp; ML Libraries</b>	NumPy, Scikit-Learn, Pandas, Keras, TensorFlow, PyTorch, OpenCV
<b>Web</b>	HTML5, JavaScript, CSS, Django, Flask
<b>Other</b>	Git, Docker, nginx
<b>Languages</b>	Spanish, Catalan, English, German (Basic Knowledge)