

# Jorge Pinilla Lopez

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## Education

### Australian National University

Canberra Australia

BACHELOR OF ADVANCED COMPUTING (HONOURS)- EXCHANGE

Jun. 2018 - Jun. 2019

- One year exchange student at the Australian National University
- High Distinction in Game theory, CyberSecurity, Computer Vision, BioInspired Computing and IndividualResearch project

### University of Zaragoza

Zaragoza, Spain

BACHELOR OF INFORMATICS ENGINEERING, ADVANCED COMPUTING

Sep. 2015 - Jun. 2019

- High Distinction in Programming 1, System Administration, Artificial Intelligence and Basics of Business Administration
- Coursework focused on machine learning, deep learning, artificial intelligence and computer vision.

### Waverly Shell Rock, Senior High School

Waverly, IA, USA

AMERICAN HIGH SCHOOL

Sep 2013 - Jun. 2014

- One year exchange in a Rotary international program in an American high school

### Other Education

EXTRA CURRICULAR EDUCATION

- Android Programming (90h) - Jul.2016
- Web Technologies (90h) - may.2016
- Introduction to Machine Learning (20h) - Feb.2017

## Experience

### SICE Pty Ltd

Sydney, Australia

JUNIOR SOFTWARE ENGINEER

Jul. 2019 - current

- Design, Develop and Test Intelligence Traffic Systems software for the [WestConnex](#) project.

### SRAP, Spanish Researchers in Australia Pacific

Sydney, Australia

IT SUPPORT AND MEMBER

2019 - current

- Maintenance and Developing IT for the SRAP
- Organising events and promoting spanish researching in Australia

### FESPM, Spanish Federation of Math Teachers

Spain

WEBMASTER

Mar. 2016 - Mar. 2019

- WebMaster for the [SUMA webpage](#) of the FESPM, the Spanish Federation of Math Teachers

### SICUZ Service of IT and Communications at the University of Zaragoza

Zaragoza, Spain

INTERSHIP

Apr. 2017 - Jul. 2018

- SICUZ manage all the IT and communication infrastructure for all students and researchers at the university of Zaragoza
- Developed a Software Defined Storage solution based on [CEPH](#) for HPC on Linux and VMWare systems

### Italia López Caballero S.L.

Zaragoza, Spain

WEBMASTER AND ECOMMERCE

Jul. 2015 - Aug. 2015

- WebMaster for the [Italia Lopez Caballero](#) company in Spain and ECommerce representative

## Projects and Merits

- **Ceph, Vuelve a tener control sobre tu almacenamiento:** [Talk](#). Co-author of a presentation in the 30th TECNICAS Sessions of RedIRIS
- **Improving Fuzzing performance using Hardware accelerating Hashing and PCA guidance:** [Research Project](#). Improving fuzzing techniques by optimizing hash collisions and using ML techniques to improve guidance of [American Fuzzy loop](#)
- **Satellite image based precipitation forecast:** [Project](#) Data driven approach of CNN and machine learning techniques for weather prediction based on satellite images for the Himawari 8 satellite
- **The blushing of liars:** [Project](#) Neural Network approach to the Fight or Flight response
- **Algorithm for mobility between Zaragoza Local Police departments:** Civil award for an algorithm to improve and proof the correctness of the solution for mobility programs of the Local Police of Zaragoza
- **Organizing comete** of the first [imaginecode](#) hackathon in Zaragoza
- **Organizing comete** in the international conference [Petri Nets 2017 - ACS D 2017](#)
- **Winner** of the oesia challenge at the first edition of the [uCode 2017](#) by Adidas in Zaragoza

## Skills

**Programming Languages:** C, C++, Java, Python (including pytorch, keras, tensorflow), Bash  
**OS, Frameworks and Tools:** Linux, CEPH, Git, HPC, Deep Learning, Machine learning, AI, Computer vision  
**Spoken Languages:** English (C1 - Advanced), Spanish (Native)