

Samuel Cerezo

SOFTWARE ENGINEER ·

Pisa, Italy

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Summary

Electronic Engineer and researcher with international experience in Argentina, Spain, and Germany. Formerly in the oil industry, now completing a Ph.D. in Computer Sciences. Skilled in C++, Python, and MATLAB, with a strong focus on real-time systems, optimization, and modular design. Fluent in Spanish and English; conversational in Italian. Passionate about turning research into robust, deployable solutions.

Work Experience

KUKA

SOFTWARE RESEARCHER

Augsburg, Germany

Apr. 2024 - March 2025

- Developed localization and 3D reconstruction algorithms for a sensorized mobile robot, integrating RGB-D vision, ROS, and Docker in an applied industrial research setting.

Universidad de Zaragoza

PHD STUDENT

Zaragoza, Spain

May 2021 - present

- Developed GNSS-IMU-vision fusion algorithms with observability-aware GPS constraint activation.
- Dataset generation with RGB-D-inertial sequences in photorealistic environments for benchmarking SLAM algorithms.
- Currently implementing and validating real-time C++ algorithms for visual-inertial initialization.

Hydroner Services

SOFTWARE ENGINEER

Neuquén, Argentina

Sept. 2020 - March 2021

- Designed and implemented IoT systems for water transfer in oil wells, using Allen Bradley PLC. This resulted in saving of 33% to the company.

Education

Universidad de Zaragoza

PHD IN COMPUTER SCIENCES

Zaragoza, Spain

2021 - now

- Two scholarships obtained due to university performance.
- GPA: 8.69 / 10.

Universidad Nacional del Comahue

ELECTRONIC ENGINEERING

Neuquén, Argentina

2014 - 2020

- Two scholarships obtained due to university performance.
- GPA: 8.69 / 10.

Honors & Awards

INTERNATIONAL

- 2018 **Finalist**, DEFCON 26th CTF Hacking Competition World Final
- 2017 **Finalist**, DEFCON 25th CTF Hacking Competition World Final
- 2014 **Finalist**, DEFCON 22nd CTF Hacking Competition World Final
- 2013 **Finalist**, DEFCON 21st CTF Hacking Competition World Final
- 2011 **Finalist**, DEFCON 19th CTF Hacking Competition World Final

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

DOMESTIC

- 2015 **3rd Place**, WITHCON Hacking Competition Final
- 2017 **Silver Prize**, KISA HDCON Hacking Competition Final
- 2013 **Silver Prize**, KISA HDCON Hacking Competition Final

Seoul, S.Korea

Seoul, S.Korea

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Presentation

DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

Program Committees

2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final

S.Korea

2013 **Organizer & Co-director**, 1st POSTECH Hackathon

S.Korea

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.