Emiliano Sánchez | *Software Engineer & Researcher*

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WORK EXPERIENCE

React Native developer, Xoor S.A. - *May/2019 - July/2019* - Tandil, Argentina.

- Development of an Android and iOS mobile app for sailing.
- Main used technologies: React Native, Expo.

Software Engineer & Researcher, CONICET-ISISTAN Research Institute - *April/2014 - March/2019* - Tandil, Argentina.

- Part of my PhD formation. Lead the research and development of a novel approach for the performance optimization and dynamic adaptation of service-based systems.
- Development and performance testing of different mobile apps and Web APIs as case studies.
- Research Areas: Artificial Intelligence, Machine Learning, Optimization, Mobile Computing, Service-Oriented Computing.
- Publications: *A family of heuristic search algorithms for feature model optimization, Science of Computer Programming, 2018*
  An approach based on feature models and quality criteria for adapting component-based systems, JSERD, 2015

Freelance Android developer - *July/2014 - Present.*

- Development and administration of Android apps in Google Play store.
- The most successful applications are *Clip Converter MP3* and *Medical Formulas* with more than one million and one hundred thousand downloads respectively. Clip Converter MP3 is an utility application for extracting audio files from videos. Medical Formulas provides a catalog of equations, formulas and scores used in clinical practice, classified in different specialties.
- Main used technologies: Android SDK, Apache Cordova, Java, JavaScript, Firebase.

Software Engineer, SparkDigital S.A. - *August/2013 - January/2014* - Tandil, Argentina.

- Client: ***Apigee***, a platform for API management.
- My responsibilities were: respond customer concerns with regards to Apigee products; provide development guidelines and solutions; identify, solve and verify application issues.
- Gained experience in integration strategies with third party applications. Development, evaluation and management of API solutions. Direct contact with many customers from several organizations. Teamwork using Kanban methodology.
- Main used technologies: Apigee 3.8/4G platform, AWS, SOAP/REST Web services, JavaScript, Java, OAuth, JMeter, SoapUI.

Research Intern, INRIA Research Institute - *July/2012 - Dec/2012, Oct/2016 - Dec/2016* - Sophia Antipolis, France.

- Work on a research project concerning the design of models and optimization algorithms for the dynamic adaptation if video-surveillance systems.
- Main used technologies: Java, C/C++, Boost library, QTCreator.
- Publication: *Metrics on feature models to optimize configuration adaptation at run time, CMSBSE 2013*.

EDUCATION

Phd in Computer Science, UNICEN University (March/2019)

- Thesis: "Optimization of Feature Models with applications for the adaptation of service compositions".

B.Sc in Systems Engineering, UNICEN University (2013)

- Thesis: "A Web tool for assisting the documentation of software architectures".
- Award "To the best engineering graduates from argentine universities", by the Engineering National Academy, Buenos Aires, Argentina.

TEACHING ASSISTANT

Web Architectures (2016-2017)*
Introduction to System Architectures (2011-2012)*

**All courses at UNICEN University*

LANGUAGES

Spanish: native
English: upper-intermediate.
First Certificate in English from Cambridge in 2006.
2 months living in USA. VISA expires in 2023.
French: basic. 7 months living in France

TECHNICAL SKILLS

Programming languages: Java (8 years), JavaScript (3 years), C/C++ (2 years), Python and PHP (1 year).
Web development: HTML, CSS, ReactJS, Redux, Spring, Jersey, Hibernate, Node.js, REST, JMeter, SQL (MySQL, Derby).
Mobile development: Android SDK, React Native, Expo, Apache Cordova, App monetization and analytics.
Others: Firebase, AWS, Jelastic, GIT, Jira, Bash/Shell/PowerShell, Scrum, Kanban.