David **Espinel**



ABOUT ME

Curious and determined, I'm always looking for new challenges.

INFORMATION

9 Rue de Bourgogne 22300 Lannion, France Tél: +06 52 58 89 40 E-mail: dafespinelsa@gmail.com

SPOKEN LANGUAGES



Mother tongue Business skills Rusiness skills Notions

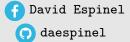
INTERESTS

Road cycling: Regular practice. National University of Colombia road cycling team 2014-2015. Cycling team Cyclo-Détente-Ploulec'h 2020-

History: Passionate about universal and Colombian history. Soccer: Télécom

ParisTech soccer team 2015-2016.

Voyages: Colombia, Venezuela, Italy, Germany, Bulgaria, Greece, Turkey, Roumania, Spain,... Others: Music (Bass and drums), dances: Salsa, bachata....



PROFESSIONAL EXPERIENCES

Feb.2018-.

Anticipation and research engineer - Orange Labs Lannion

PHD CIFRE · Lannion, France ♀

- · Functional requirements analysis for the distributed management of laaS services using OpenStack as use case.
- Analysis and performance and capacity tests of different open source and comercial solutions with the objective of providing distributed laaS function-
- · Prototyping distributed applications using the Python Flask framework for the virtual connectivity management among independent OpenStack instances. Hihg scale tests conception, development and deployment tests à using Ansible.

Mars - August 2017

Research engineer - Orange Labs Châtillon

INTERNSHIP · Paris, France 9

- Architectural study of OpenDayLight and ONOS controllers.
- · Autonomous Python application development to generate network failure scenarios to test the controllers resiliency.
- · Vulnerabilities study of the two controllers using the developed platform.

May - August 2014

Software developer - National University of Colombia

NATIONAL BUREAU OF ADMISSIONS FELLOW STUDENT · Bogota, Colombia. •

- · Assistance for the execution of development exigences given by the national bureau of admissions. Utilisation of JavaEE for the developement of new functionalities for the Admissions web site.
- · Technical assistance for the informatic services provided by the national bureau of admissions.

EDUCATION

(2021) **PhD CIFRE Informatics** IMT Atlantique 🏛

Diplôme d'Ingénieur (MsC) 2017 Télécom ParisTech 🏛

2017 Bachelor's degree on Computer and Systems engineering

National University of Colombia in

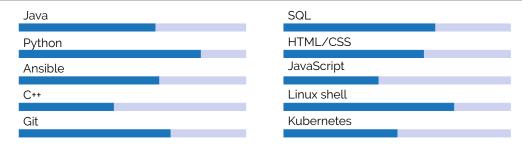
PUBLICATIONS

2020 DE Sarmiento, A Lebre, L Nussbaum, A Chari. Multi-site Connectivity for Edge Infrastructures **DIMINET: Distributed Module for Inter-site NET**working. CCGrid 2020.

2019 DE Sarmiento, A Lebre, L Nussbaum, A Chari. Distributing connectivity management in Cloud-Edge infrastructures: Challenges and approaches. COMPAS 2019.

> JMS Vilchez, DE Sarmiento. Fault Tolerance Comparison of ONOS and OpenDaylight SDN Controllers. 2018 4th IEEE Conference on Network Softwarization and Workshops-NetConf 2018.

TECHNOLOGICAL COMPETENCES



2018

Networking **Others** IP/TCP stack, BGP, MP-BGP, MPLS, VXLAN, DHCP, LDAP, OpenFlow.

AWS, OpenStack, KVM, Docker, qemu, OpenDayLight, ONOS, OpenvSwitch, Mininet, Scrum methodology, DevOps methodology, LaTeX, UML.