

David Espinel



ABOUT ME

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

INFORMATION

9 Rue de Bourgogne
22300 Lannion, France
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SPOKEN LANGUAGES



Mother tongue
Business skills
Business 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,....

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PROFESSIONAL EXPERIENCES

Feb.2018-.

Anticipation and research engineer - Orange Labs Lannion

PhD CIFRE · Lannion, France

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

Mars - August 2017

Research engineer - Orange Labs Châtillon

INTERNSHIP · Paris, France

- 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 development 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

2017 **Diplôme d'Ingénieur (MSc)**

Télécom ParisTech

2017 **Bachelor's degree on Computer and Systems engineering**

National University of Colombia

PUBLICATIONS

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

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

2018 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

Java

Python

Ansible

C++

Git

SQL

HTML/CSS

JavaScript

Linux shell

Kubernetes

Networking

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

Others

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