



# Josep Batallé

Researcher and Fullstack developer



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<https://goo.gl/pK9ss1>



<https://github.com/jbatalle>



## ABOUT

MSc. Josep Batallé is a research engineer at i2CAT Foundation since 2013. He obtained his Technical Engineer in Telecommunications at Rovira i Virgili University (2011) and his Master in Telematics engineering at the Technical University of Catalonia (2013). He has been involved in several European projects such as T-NOVA, GEYSERS, DOLFIN, CHARISMA, SESAME and OFERTIE involving the most relevant topics of the last five years: Network Function Virtualization (NFV), Software Defined Networks (SDN), Network as a Service (NaaS), 5G and so on. Currently he is working in T-NOVA, taking care of the design and development of the core of TeNOR. TeNOR is a NFV orchestrator totally integrated with Openstack and OpenDaylight (ODL) that follows the NFV ETSI standards.



## WORK EXPERIENCE

### Research and projects engineer, [i2CAT Foundation](#)

Nov 2013 - Present ⓘ 3 years

- Designer and main developer of the NFV orchestrator for the T-NOVA project: TeNOR (<https://github.com/T-NOVA/TeNOR>)
- Designer and developer of an OpenAccess platform for the CONTENT, SODALES and CHARISMA projects.
- Developer of multiple User interfaces (Dashboard) for several projects
- Coworking with CISCO and Barcelona City Council in a proof of concept about FOG Computing
- Technologies used: Ruby, Java, Javascript, MongoDB, ElasticSearch.

### Internship, [i2CAT Foundation](#)

Dec 2012 - Oct 2013 ⓘ 10 months

i2CAT Foundation is a non-profit research and innovation centre which promotes mission-oriented R+D+i activities on advanced Internet architectures, applications and services. The centre stands up for a new open innovation framework, fostering the collaboration between companies, public administration, the academic environment and end-users.

- Designer and developer of a Management interface for GEYSERS project. Implementation of the backend in a Network as a Service platform.
- Proof of concept in NFV.
- Technologies used: Java, Javascript, HTML.

### Internship, Artic-Group

Jun 2012 - Nov 2012 ⓘ 5 months

Artic Group was a technology consulting and specialized in web presence and positioning.

- Development of several webs for different clients. Most important client: solomoto.es
- Technologies used: PHP, Bash, HTML.



## EDUCATION

### MSc Telematics Engineering, Master, Universitat Politècnica de Catalunya (Barcelona)

Jun 2013 - Jan 2011

### BSc Telematics Engineering, Bachelor, Universitat Rovira i Virgili (Tarragona)

Jun 2008 - Jan 2011



## SKILLS

**Backend:** Ruby (Sinatra, Rails), Java (OSGI, Karaf, Spring, Hibernate), Python (Django), NodeJS, RabbitMq.

**Frontend:** HTML && CSS, Javascript(AngularJS, D3js, Visjs), PHP (Drupal, Wordpress).

**Databases:** SQL: MySQL, Postgre, NoSQL: MongoDB, EApache Cassandra, ElasticSearch.

**DevOps:** Ansible, Vagrant, Docker, OpenStack.

**Networking:** SDN (Openflow, ODL, vSwitch), NFV, IPv6.

**Source control and CI/CD:** Jenkins, Travis, Git, SVN.



## PROJECTS

**TeNOR** , <http://github.com/T-NOVA/TeNOR>

Published on: 2014-08-24

NFV Orchestrator platform developed by the T-NOVA project, responsible for managing the entire NFV lifecycle service.



## AWARDS

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**Student ICT research project competition**, Techcrunch

Awarded on: Nov 2013

Best student project



## PUBLICATIONS

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**TeNOR: Steps towards an orchestration platform for multi-PoP NFV deployment**, IEEE

Published on: Jun 06, 2016

**Virtual network function scheduling: Concept and challenges**, IEEE

Published on: Jun 18, 2014

**On the Implementation of NFV over an OpenFlow Infrastructure: Routing Function Virtualization**, IEEE

Published on: Nov 11, 2013

**Management of Virtual Infrastructures through OpenNaaS**, IEEE

Published on: Jun 17, 2013



## LANGUAGES

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**English** (Fluent) , **Spanish** (Native speaker) , **Catalan** (Native speaker) .