

# Cristián RAMÓN-CORTÉS VILARRODONA

Ph.D. in Computer Architecture  
Computer Sciences Engineer  
Industrial Engineer



Birthdate: 19th October 1990  
 Birthplace: Barcelona, Catalonia, Spain

I cannot recall the day I became passionate about informatics, but I have always felt that there was something more. The Barcelona Supercomputing Center (BSC) introduced me to the Java world (which I am still very fond of) and allowed me to contribute to the design and development of programming models for Distributed Computing, High Performance Computing (HPC), and Big Data Analytics (BDA). However, Dynatrace has provided me with the opportunity to pursue my true passion through a combination of people management and product delivery. I will never stop learning, but so far I am growing as a leader who values communication, respect, honesty, fairness, and effort above all.

## PERSONAL INFORMATION

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## EXPERIENCE

Today October 2020	<b>Team Lead, Product Owner, and Senior Software Engineer, DYNATRACE, Spain</b> <ul style="list-style-type: none"><li>&gt; Team Lead: Provide guidance to the group and conduct 1on1's, career plans, 360-feedback, and performance reviews</li><li>&gt; Product Owner: Define the product road-map for our component, maintain the backlog, agree priorities with stakeholders, and drive many agile meetings</li><li>&gt; Senior Software Engineer: My efforts are focused on processing and aggregating session data for real user monitoring, and developing the next generation storage for behavioural analytics</li></ul> <p><span>Java</span> <span>Python</span> <span>Bash</span> <span>Cassandra</span> <span>ElasticSearch</span> <span>Spark</span> <span>Jupyter</span> <span>Gradle</span> <span>IntelliJ</span></p>
October 2020 May 2017	<b>Software Engineer, BARCELONA SUPERCOMPUTING CENTER (BSC), Spain</b> <p>Software Engineer for the Workflows and Distributed Computing group (WDC) at the Barcelona Supercomputing Center (BSC) working in collaboration with the Computer Architecture Department (DAC - UPC). My main tasks were:</p> <ul style="list-style-type: none"><li>&gt; Orchestration of Data Science workflows</li><li>&gt; Automatic parallelisation of affine loops in Python</li><li>&gt; Integration with Container technologies (e.g., Docker, Singularity, Mesos)</li><li>&gt; Distributed execution of Hybrid Workflows composed of Task-based Workflows and Dataflows</li><li>&gt; Integration of Streaming Technologies (e.g., Kafka) inside COMPSs</li></ul> <p><span>Java</span> <span>Python</span> <span>Bash</span> <span>C++</span> <span>Maven</span> <span>Eclipse</span> <span>IntelliJ</span></p>
May 2017 February 2016	<b>Junior Developer, BARCELONA SUPERCOMPUTING CENTER (BSC), Spain</b> <p>Junior Developer at the Workflows and Distributed Computing (WDC) group at the Barcelona Supercomputing Center (BSC). My main tasks were to enhance the infrastructure and deployment of COMPSs, and to design and implement several features inside its Runtime.</p> <p><span>Java</span> <span>Python</span> <span>Bash</span> <span>Maven</span> <span>Eclipse</span> <span>Jenkins</span> <span>DEB packages</span> <span>RPM packages</span></p>

February 2016 | Resident Student, **BARCELONA SUPERCOMPUTING CENTER (BSC), Spain**  
 April 2014 | Resident Student at the Grid Computing group at the Barcelona Supercomputing Center (BSC). My main tasks were to build a testing infrastructure for COMPSs and to re-design its Monitoring component.

Java Python Bash Maven Eclipse Jenkins ZK Framework Apache Tomcat

December 2013 | **Teacher in a Student Advise Service, ACADEMIA SOL, Spain**  
 September 2011 | Teacher of Bachelor and Master of Engineering students (ETSEIB, EUETIB, and FIB) at the Academia SOL. The goal was to provide academic review and reinforcement in a simpler and closer way than the university professors. Taught subjects: Heat Transfer, Mathematics, Theory of Computation, Informatics (1 and 2), and Programming 2.

Python C++ Bash Lazarus Public Speaking

## EDUCATION

- 2020 **Doctor of Philosophy (Ph.D.) in Computer Architecture.**  
**Thesis Title: Programming models to support Data Science Workflows**  
**Mark: Excellent Cum Laude**  
 Computer Architecture Department (DAC)  
 Universitat Politècnica de Catalunya (UPC)
- 2017 **Master of Science in Innovation and Research in Informatics (MIRI).**  
**Specialised in High Performance Computing (HPC)**  
 Universitat Politècnica de Catalunya (UPC)
- 2014 **Diploma in double Bachelor and Master of Engineering**  
 Centre de Formació Interdisciplinària Superior (CFIS)  
 Universitat Politècnica de Catalunya (UPC)
- 2014 **Bachelor and Master of Engineering in Industrial Engineering**  
 Escola Tècnica Superior d'Enginyeria Industrial de Barcelona (ETSEIB)  
 Universitat Politècnica de Catalunya (UPC)
- 2014 **Bachelor and Master of Engineering in Computer Sciences**  
 Facultat d'Informàtica de Barcelona (FIB)  
 Universitat Politècnica de Catalunya (UPC)
- 2008 **Primary, Secondary, and General Education**  
 AULA Escola Europea

## LANGUAGES

Catalan ●●●●●  
 Spanish ●●●●●  
 English ●●●●○  
 French ●●●●○

## STRENGTHS

- > Organised, methodical, and responsible
- > Perfectionist, demanding, and ambitious
- > Passionate, curious, and motivated
- > Ease of learning
- > Autonomous and teamwork
- > Management and communication skills

## PROGRAMMING LANGUAGES

