Cristián
RAMÓN-CORTÉS VILARRODONA

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

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

My areas of interest are Distributed Computing, High Performance Computing (HPC), and Big Data Analytics (BDA). At Dynatrace, I lead a team focused on processing and aggregating session data for real user monitoring, and developing the next generation storage for behavioural analysis. During my career at the Barcelona Supercomputing Center (BSC), I actively contributed to the design and development of programming models for distributed platforms, task-based workflows, dataflows, and streaming technologies. And yes, I love JVM-based languages!

PERSONAL INFORMATION

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EXPERIENCE

Today — October 2020

Team Lead, Product Owner, and Senior Software Engineer, DYNATRACE, Spain
> Team Lead: Provide guidance to the group and conduct 1on1's, career plans, 360-feedback, and performance reviews
> Product Owner: Define the product road-map for our component, maintain the backlog, agree priorities with stakeholders, and drive many agile meetings
> 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 analysis

Java | Python | Bash | Cassandra | ElasticSearch | Spark | Jupyter | Gradle | IntelliJ

October 2020 — May 2017

Software Engineer, BARCELONA SUPERCOMPUTING CENTER (BSC), Spain
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:
> Orchestration of Data Science workflows
> Automatic parallelisation of affine loops in Python
> Integration with Container technologies (e.g., Docker, Singularity, Mesos)
> Distributed execution of Hybrid Workflows composed of Task-based Workflows and Dataflows
> Integration of Streaming Technologies (e.g., Kafka) inside COMPSs

Java | Python | Bash | C++ | Maven | Eclipse | IntelliJ

May 2017 — February 2016

Junior Developer, BARCELONA SUPERCOMPUTING CENTER (BSC), Spain
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.

Java | Python | Bash | Maven | Eclipse | Jenkins | DEB packages | RPM packages

February 2016 April 2014	**Resident Student, Barcelona Supercomputing Center (BSC), Spain** 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 September 2011	**Teacher in a Student Advise Service, Academia SOL, Spain** 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 Interdisciplinaria 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