

Eduardo Miranda

I have strong documentation and communication skills in English, with an ability to liaise effectively and professionally with individuals at all levels. I consider myself to have excellent creative-thinking mind, to be a results-oriented professional, extremely versatile and a fast learner. I am a committed person and a hard worker always motivated and enthusiastic about learning new technologies.

I am comfortable in a driven and agile environment and have motivation to work in a targeted, structured, and productive manner in a multidisciplinary team. Strong foundational knowledge and experience with a range of big data components such as HDFS, MapReduce, HBase, Oozie, Pig, Hive, Zookeeper, Sqoop and Flume.

Technologies

C++	80%	Sqoop	80%
Python	65%	Hive	70%
Java	55%	Pig	60%
Semantic Web	60%	MongoDB	60%
Machine Learning	50%	HBase	65%
Hadoop	70%	Neo4j	70%
Spark	65%	MySQL	75%

Education

M.Sc. in Computer Science

2013 | State University of Campinas.

Bachelor of Computer Science

2011 | Federal University of Viçosa.

Technician in Industrial Informatics

2002 | Industrial Technical College of Guaratinguetá – UNESP.

Work Experiences

Big Data Architect | Datastorm.

March 2015 – present | Belo Horizonte, Brazil.

Datastorm is a technology company specializing in Big Data Analytics solutions. At Datastorm I have to provide data science and big data consulting services to clients on a wide range of advanced analytics-based services. Analyze multiple sources of structured and unstructured data to propose the data architecture solutions with focus on scalability, high availability and fault tolerance. Work closely with customers, at a technical and user level, to design and implement Big Data systems for data processing and analysis.

Instructor of Big Data Fundamentals with Apache Hadoop course Paraná Information and Communication Technology Company.

May 2016 – May 2016 | Curitiba, Brazil.

Course Content: NoSQL databases, Hadoop Distributed File System (HDFS), MapReduce, YARN, Pig, Hive, HBase, Sqoop and Spark. Summary of Hadoop related projects: Hue, Mahout, Oozie, Flume, Tez, Avro, Cassandra.

Assistant Professor | PUC Minas.

February 2015 – June 2015 | Belo Horizonte, Brazil.

Assistant Professor of Information Systems in the Institute of Exact Sciences and Informatics (ICEI) of the Pontifical Catholic University of Minas Gerais (PUC Minas). In this institution, I taught Object Oriented Programming Laboratory, Modular Programming and Software Quality. Courses homepage:

<http://emiranda.com.br/teaching/pucmg/2015/01/>

Project Leader | Inttelix Brasil Tecnologia e Sistemas.

May 2014 – February 2015 | Belo Horizonte, Brazil.

Inttelix is an organization focuses on Face Recognition Systems and Biometric Technologies. At Inttelix Brasil I managed a team of four people that was responsible for the technical execution of the Brazilian projects. I was responsible for face-to-face contact with customers in order to translate high-level requirements into simple and efficient solutions.

Senior System Analyst | Inttelix Brasil Tecnologia e Sistemas.

October 2013 – May 2014 | Belo Horizonte, Brazil.

At that time I was responsible for requirements gathering, database design, application development, support and to prepare technical reports. At this position I work closely with the development team in India to identify and resolve defects, to improve and enhance system functionality, reliability, performance and scalability.

M.Sc. Project | State University of Campinas.

Agust 2011 – November 2013 | Campinas, Brazil.

This project started from a partnership with the Museum of Natural History in Paris (MNHN), more specifically with the Laboratoire Informatique et Systématique (LIS). The main goal of this research was to design and implement a linked biology approach to automatically link and combine data from independent semi-structured resources of phenotype descriptions and/or phylogenetic trees, exploiting their latent semantics. Also to provide the groundwork for the transition from semi-structured data representation to a more formalized representation through ontologies. The first prototype of our solution was developed with Python, Py2neo and Neo4j (a database graph).

Software Developer (Freelancer) | MasterLink Logistics.

December 2011 – October 2012 | Dublin, Ireland.

Masterlink Logistics is Ireland's leading warehouse, transport and logistics service provider. During this period of time I have worked remotely and I was tasked with troubleshooting and optimizing code. Also, I was responsible for adding new features to the application TrackIT2, of which the most important was a facility to track the activities performed by users in the entire system.

Software Developer | MasterLink Logistics

October 2009 – December 2010 | Dublin, Ireland.

Responsible for developing their Consignment Management System from scratch. This system called TrackIT2, handled about 2500 transactions daily on the retail distribution department. TrackIT2 is multi-user with menus related to access right and multi-site input tracking, with generation of all required documentation, exemption reports, key performance indicators and full flexible reporting. I also developed an application called TrackIT Client that was fully integrated with TrackIT2 and it allows Masterlink's Consignors to remotely book jobs, print labels, manifests and run reports. Both applications were developed in Visual C++ with MySQL and SQL Server Compact databases respectively.

Undergraduate research Project | Federal University of Viçosa

May 2008 – August 2009 | Viçosa, Brazil.

During my studies I participated in an undergraduate research project where we have developed an application called GPCode. GPCode is software application that has an educational purpose and its intention is to show the students a way of calculating the position of a GPS satellite. The commercial software applications available have no concern with the intermediate calculation of positioning by using GPS techniques. Hence, the students normally see GPS software applications as a black box, with data entry fields and output results. GPCode allows the students to view how the Geographical Coordinates have been calculated step by step. The application was developed in Visual C++(Microsoft Visual Studio 2008) storing the data in XML files.

Download: <http://sourceforge.net/projects/gpcode>.



Teacher Internship Program

Distributed Systems Lab | State University of Campinas.

March 2013 – July 2013 | Campinas, Brazil.

In this course I assisted the teacher in developing instructional activities. The goal of this course was to provide an attractive environment in which students learn some fundamental concepts of distributed systems.



Volunteer Experience

April 2009 – July 2009 | ONG São José do Triúnfo, Viçosa, Brazil.

My task was to teach children and the elderly how to use computers and internet at Minas Gerais government digital inclusion project.



Academic Publications

Towards a Linked Biology – An integrated perspective of phenotypes and phylogenetic trees

10th International Conference on Data Integration in the Life Sciences | July 17, 2014.

Coupling phenotype descriptions and phylogenetic trees: from SDD to ontologies via graph databases

Missouri Botanical Garden Open Conference Systems – TDWG Annual Conference | November 01, 2013.

Unifying Phenotypes to Support Semantic Descriptions

06th Seminar on Ontology Research in Brazil | September 22, 2013.

GPCode: Software didático para calcular observações GPS

25th Brazilian Congress of Cartography | August 21, 2011.



Presentations

What is semantic web and how it differs from web we know today?

February 2016 | Belo Horizonte Data Science Meetup.

Microsoft Azure Machine Learning Training.

November 2015 | Microsoft Virtual Academy.

What is semantic web and how it differs from web we know today?

November 2015 | Big Data Week 2015.

What is Big Data?

August 2015 | 20th Informatics Week – Federal University of Viçosa.