josédevezas

software engineering and data science

contact

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languages

portuguese (native)
english (fluent)

programming

♥ Scala Python R SQL
JavaScript D3.js
Sigma.js HTML5 CSS3
Java C# Gremlin

education

2003–2010	**Masters** in Informatics and Computing Engineering	FEUP, Universidade do Porto

Classification: 14 out of 20 (fourteen out of twenty)

Link Ecosystem of the Portuguese Blogosphere

This thesis explored the blogosphere as an ecosystem of blogs comprised not only of a set of posts and their individual content, but also of the interactions established through the hyperlinks connecting the posts. Based on this study, we discovered a correlation between the blog's centrality and the length and number of posts.

Thesis Classification: 18 out of 20 (eighteen out of twenty)

2000–2003	**Technological Specialization** in Informatics	Colégio de Gaia

Classification: 18 out of 20 (eighteen out of twenty)

experience

2015–Now	**LABORATÓRIO DE SISTEMAS DE INFORMAÇÃO/U.PORTO**	Porto, Portugal

Researcher / Developer

Research and development of an entity-oriented search engine. Particularly focused on query analysis methodologies, as well as the construction of specialized indexes and ontologies for efficient and effective question-answering through contextual widgets. The produced system was also aimed at providing a platform able to support the academic community with the experimentation of search engines backed by linked data.

2013–2015	**INTERRELATE**	Porto, Portugal

Software Engineer / Data Scientist

Data Science:

- Collection and analysis of several types of data, mainly originating from the web, particularly from social media.
- Highly proficient in R, Python and SQL (from data collection to reporting), including topic tracking, outlier and anomaly detection, statistical smoothing, regression, classification, clustering and network analysis.
- Skilled in dynamic reporting.
- Developed several data visualization widgets.
- Analyzed social networks and other graphs.

Software Engineering:

- Software design of web applications and analytics pipelines.
- Technology evaluation and selection.
- Supporting the team with new technologies or languages.
- INTERRELATE Backoffice:
  - Devising strategies for automatic and periodical data collection and information extraction from unstructured user-generated content;
  - Systems integration, including team coordination (4 person project).

Programming:

- Worked in nearly every company project, using various different languages.
- Developed several web applications and web services.
- INTERRELATE Backoffice:
    - Web crawler development;
    - Development of data visualization widgets for internal statistics;
    - Front-end design and development.

Sysadmin:

- Manage the company servers, including security, backups and product deploys.
- Maintain firewall rules and SMTP server.
- DNS configurations (including SPF, for SPAM control).
- Nginx configurations.
- Company services maintenance (internal and external).
- Log monitoring and bug reporting.
- Real-time e-mail log error monitoring for critical systems and web service mobile monitoring for downtime or connection issues.
- Support Ticket System configuration.
- PayPal payment services.

2012–2013   **LABORATÓRIO SAPO/U.PORTO**   Porto, Portugal
Researcher / Developer
Research and development of music discovery and recommendation techniques supported on a graph-based neighborhood approach, as well as on latent factor models based on matrix factorization algorithms. Development of methodologies to combine knowledge from different dimensions, including not only user profile, content and context features, but also social features, such as community structure. Related tasks required work on data mining, multimodal network analysis and community detection, and information retrieval.

2011–2012   **CRACS/INESC TEC**   Porto, Portugal
Researcher / Developer
Enhancement, adaptation and implementation of state of the art algorithms for network analysis, data mining and data visualization, in the context of intelligent information systems for cyber journalism, as part of the Breadcrumbs Project (UTA-Est/MAI/0007/2009).

2010-2011   **LABORATÓRIO SAPO/U.PORTO**   Porto, Portugal
Researcher / Developer
Work in the areas of data mining, network analysis, community detection, information retrieval, real-time data analytics and data visualization.

2002-2003   **NÚCLEO PORTUGUÊS DE FREEBSD**   Coimbra, Portugal
Documentation / Programming
Translation of the official FreeBSD documentation to portuguese, creation of how-to guides in portuguese, porting open source applications to FreeBSD and programming and content management of the hint subsystem.

awards

2012   **Certificate of Merit** The 2012 IAENG International Conference on Data Mining and Applications
Awarded to the best papers published in the conference.

communication skills

2013	**Oral Presentation**	DEI–FEUP

Did a short presentation on the Juggle project for the department, in the context of DEI Talks.

2013	**Oral Presentation**	SAPO

Presented the Juggle project, including the developed graph-based recommendation algorithms, for the SAPO technical team.

2012	**Oral Presentation**	International Conference on Knowledge Discovery and Information Retrieval

Presented an interactive news clips visualization tool for applications in journalistic research and knowledge discovery.

2012	**Oral Presentation**	IAENG International Conference on Data Mining and Applications

Presented a methodology, based on community detection in multidimensional networks, for the creation of news context from a folksonomy of web clipping.

2011	**Poster**	International AAAI Conference on Weblogs and Social Media

Presented research work on using the h-index to estimate blog authority.

2010	**Oral Presentation**	Laboratório SAPO/U.Porto

Presented Ciclope project for the Portugal Telecom's CEO and the media, as part of the inaugural presentation of Laboratório SAPO/U.Porto.

2010	**Poster**	KDD Workshop on Social Media Analytics

Presented the blog popularity study conducted during my Masters degree.

interests

professional: search engines, data analysis, social network analysis, community detection, web development, data and information in general visualization **personal:** music, television, guitar, cooking

additional information: Please check out my personal website, where I've shared some of my research output: http://josedevezas.com/#/research#publications

publications

articles in peer-reviewed journals

The Community Structure of a Multidimensional Network of News Clips
José Luís Devezas, Álvaro Reis Figueira
International Journal of Web Based Communities 9.3 (2013) pp. 411–429. 2013

Finding Language-Independent Contextual Supernodes on Coreference Networks
José Devezas, Álvaro Figueira
IAENG International Journal of Computer Science 39.2 (2012) pp. 200–207. 2012

book chapters

Álvaro Figueira, José Devezas, Nuno Cravino, Luis-Francisco Revilla. "Creating and Analysing a Social Network Built From Clips of Online News". In: *Information Systems and Technology for Organizations in a Networked Society*. IGI Global, 2012.

international peer-reviewed conferences/proceedings

Exploring a Large News Collection Using Visualization Tools
Tiago Devezas, José Devezas, Sérgio Nunes
Proceedings of the First International Workshop on Recent Trends in News Information Retrieval co-located with 38th European Conference on Information Retrieval (ECIR 2016), 2016, Padua, Italy

Large-scale Crossmedia Retrieval for Playlist Generation and Song Discovery
Filipe Coelho, José Devezas, Cristina Ribeiro
Proceedings of the 10th International Conference in the RIAO series (OAIR 2013), 2013

Using the Overlapping Community Structure of a Network of Tags to Improve Text Clustering
Nuno Cravino, José Devezas, Álvaro Figueira
Proceedings of the 23rd ACM Conference on Hypertext and Social Media (HT 2012), 2012, Milwaukee, WI, USA

Creating News Context From a Folksonomy of Web Clipping
José Devezas, Henrique Alves, Álvaro Figueira
Lecture Notes in Engineering and Computer Science: Proceedings of The International MultiConference of Engineers and Computer Scientists 2012 (IMECS 2012), 2012, Hong Kong

Studying a Personality Coreference Network in a News Stories Photo Collection
José Devezas, Filipe Coelho, Sérgio Nunes, Cristina Ribeiro
Lecture Notes in Computer Science: Proceedings of the 34th European Conference on Information Retrieval (ECIR 2012), 2012, Barcelona, Spain

Interactive Visualization of a News Clips Network: A Journalistic Research and Knowledge Discovery Tool
José Devezas, Álvaro Figueira
Proceedings of the 4th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2012), 2011, Barcelona, Spain

Using the H-index to Estimate Blog Authority
José Devezas, Sérgio Nunes, Cristina Ribeiro
Proceedings of the Fifth International AAAI Conference on Weblogs and Social Media (ICWSM 2011), 2011, Barcelona, Spain

Studying Blog Features over Link Popularity
José Devezas, Cristina Ribeiro, Sérgio Nunes
Proceedings of the First Workshop on Social Media Analytics (SOMA 2010), held in conjunction with the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2010), 2010, Washington, DC, USA

FEUP at TREC 2010 Blog Track: Using h-index for blog ranking
José Devezas, Sérgio Nunes, Cristina Ribeiro
The Nineteenth Text REtrieval Conference Proceedings (TREC 2010), 2010, Gaithersburg, MD, USA

thesis reports

José Devezas. "Link Ecosystem of the Portuguese Blogosphere". Master's Thesis. Faculdade de Engenharia da Universidade do Porto, 2010, pp. 1–50.

research reports

An Overview of the Graph Database Paradigm - Breadcrumbs Project
José Devezas
Tech. rep., 2011

Overlapping Community Detection - Labs SAPO/UP Report
José Devezas, Sérgio Nunes, Cristina Ribeiro
Tech. rep., 2011