andré**santos**

web, language and bioinformatics

about

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birth date

24 Fev 1988

contacts

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languages

native portuguese
fluent english
basic spanish+french

favorite tools

♥ Node.js, Perl, Git,
MongoDB

interests

web, open source, Linux, Node.js, Perl, natural language processing, information retrieval, bioinformatics

technical skills

Languages	**Node.js, JavaScript and Perl** Also Haskell, LaTeX	
Databases	**MongoDB** Also MySQL, PostgreSQL, ElasticSearch	
Frameworks and libraries	**Express, Dancer** Also React, Mocha, Chai, Sinon	
Other tools	**Git, Bash**	

experience

2013–2015	**SAPO, Portugal Telecom (consultant from CoderHat)** Largest Portuguese web portal. Typical tasks included:	Web developer

- development and support of multiple Node.js APIs,
- management of several MongoDB databases,
- development of Node.js and Perl frontend websites and backoffices

http://sapo.pt, http://24.sapo.pt, http://jornais.sapo.pt

2011–2013	**Subvisual (former GroupBuddies)** UX, UI, web and mobile development company Typical tasks included:	Sys admin

- deployment and management of several Unix-based servers, with Apache and MySQL services, and Ruby on Rails applications
- development of helper scripts to automate server management tasks

https://subvisual.co

2012 Nov to 2013 Feb	**CEB, University of Minho** Collective Computation and Control in Complex Biochemical Systems. Activities:	Researcher

- parsing gene expression rules and microarray data
- simulation gene expression
- comparing simulated and experimentally obtained network states

2011 Apr to 2012 Sep	**CEHUM, University of Minho** Project Per-Fide: Portuguese in parallel with six languages: Español, Russian, Français, Italiano, Deutsch, English	Researcher

See activities description on NLP MSc in Education.

http://per-fide.di.uminho.pt/

2009 Jul-Sep	**Sapo Summerbits'09** Open source software development	Research grant

Development of natural language processing tools to help in general orthography migration challenges, motivated by the 1990 Portuguese Language Orthographic Agreement.

http://natura.di.uminho.pt/wiki/doku.php?id=ferramentas:bigorna

education

2011–2012	**MSc in Bioinformatics**	University of Minho, Portugal

Mining biological parameters from literature: an application to environmental decision support systems (thesis)

Development of a framework for building text mining applications for scientific literature, focused on numerical parameters and supported by 3rd-party tools and expert-curated ontologies.
120 ECTS, final grade 17/20

2009–2011	**MSc in Natural Language Processing**	University of Minho, Portugal

Contributions for building a Corpora-Flow System (thesis)

Development of a system to support automatic handling of corpora (cleaning, validation, format conversion), document alignment and calculation of alignability metrics of several types of documents.
120 ECTS, final grade 17/20

2006–2009	**BSc in Software Engineering**	University of Minho, Portugal

Typical CompSci course
180 ECTS, final grade 15/20

training

2011 Jul	**Bang and Olufsen Summer School**	Struer, Denmark

Conceptual Design and Development of Innovative Products

2010/11	**IdeaLab -- Business Ideas Lab**	TecMinho
2010 Jul	**Luso-Brazilian Evolutionary Computing School**	University of Minho, Guimarães
2010 Jun	**Catalyst 5.80**	Portuguese Perl Workshop'10
2005 Set	**Physics Summer School**	Faculty of Science, University of Porto
2005 Jul	**German Language Open Course**	Faculty of Arts, Univerity of Porto

other activities

cesium University of Minho's Software Engineering Student Center

2009/10	**Vice-president**	http://cesium.di.uminho.pt
2010/11	**Director at CAOS**	http://caos.di.uminho.pt

CeSIUM's Open Source Support Center

programming competitions

2014	**SAPO Codebits Programming Contest**	https://github.com/andrefs/policias_beduinos

2nd qualified team with a web application to extract
relevant topics from a large collection of news.

2012	**APPP Perl Code Sprint**	http://perl.pt

3rd qualified in the Perl programming competition
organized by the Portuguese Perl Mongers group.

2009	**Microsoft Imagine Cup'09**	Lisbon, Portugal

5th classified in the national finals.

2008	**ACM South Western European Regional Contests**	Nuremberg, Germany

International programming competition.

2007-2009	**Inter-University Programming Marathon**	IST'07, UC'08, ESTGA'09

National ACM-style programming competition.

sports

1999–2013	**Judo**	INATEL; University of Minho
2010-2013	**National Judo University Championships**	Aveiro'10, Lisbon'11, Aveiro '12, Coimbra '13
2007/08	**Basketball**	University of Minho
1998-2000	**Artistic gymnastics**	INATEL

publications

articles in peer-reviewed journal

The Per-Fide corpus: A new resource for corpus-based terminology, contrastive linguistics and translation studies

José João Almeida, Sílvia Araújo, Nuno Carvalho, Idalete Dias, Ana Oliveira, André Santos, and Alberto Simões

Working with Portuguese Corpora (2014) pp. 177–200. Bloomsbury Publishing, 2014

Applying a text mining framework to the extraction of numerical parameters from scientific literature in the biotechnology domain

A. Santos, R. Nogueira, and A. Lourenço

Advances in Distributed Computing and Artificial Intelligence Journal (ADCAIJ) 1 (June 2012) pp. 1–8. 2012

peer-reviewed conferences/proceedings

Structural alignment of plain text books

André Santos, José João Almeida, and Nuno Carvalho

Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12), 2012, Istanbul, Turkey

A survey on parallel corpora alignment

A. Santos

MI-Star 2011, Braga, Portugal, 2011

Text::Perfide::Bookcleaner, a Perl module to clean and normalize plain text books

A. Santos and J.J. Almeida

Congreso Anual de la Sociedad Española para el Procesamiento del Lenguaje Natural (SEPLN2011), Huelva, Spain, 2011

Bigorna – A Toolkit for Orthography Migration Challenges

J.J. Almeida, A. Santos, and A. Simoes

Proceedings of the Seventh International Conference on Language Resources and Evaluation (LREC'10), 2010, Valletta, Malta

AGile, a structured editor, analyzer, metric evaluator, and transformer for Attribute Grammars

A. Rocha, A. Santos, D. Rocha, H. Silva, J. Mendes, J. Freitas, M. Coelho, M. Regedor, D. da Cruz, and P.R. Henriques

INForum 2010, Braga, Portugal, 2010

dissertations

Mining biological parameters from literature: an application to environmental decision support systems

André Santos

Master's dissertation, Departamento de Engenharia Biológica, Escola de Engenharia, Universidade do Minho, 2012

Contributions for building a Corpora-Flow system

A. Santos

Master's dissertation, Departamento de Informática, Escola de Engenharia, Universidade do Minho, 2011

presentations and workshops

Aprender por projetos com Raspberry Pi
Luís Santos and André Santos
jCDE2016 - IV Jornada Conteúdos Digitais para a Educação, 2016

Dist::Zilla
A. Santos
In Portuguese Perl Workshop'12, 2012

"Perl is dead" is dead
A. Santos
In Sapo Codebits VI, 2012

Cleaning plain text books with Text::Perfide::BookCleaner
A. Santos
In Portuguese Perl Workshop'11, 2011

Preparação de livros para alinhamento
A. Santos
In I Jornadas Internacionais Per-Fide: Corpora e Tradução, 2011

Detecção e Correcção Parcial de problemas na Conversão de Formatos
A. Santos
In I Workshop Per-Fide: Construção, exploração e aplicação de Corpora Paralelos. 2010

Mini aplicações web com Mojolicious::Lite
A. Santos
In Portuguese Perl Workshop'10, 2010