

andré santos

nlp, webdev and sysadmin

about

address

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website

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languages

native portuguese
fluent english
basic spanish+french

programming

♥ Perl (Moose, Dancer,
Catalyst, DBIC)
Bash, \LaTeX

interests

web development, open source software, Perl, natural language processing, information retrieval, bioinformatics

experience

since 2011

GroubBuddies

Startup company which develops web-based solutions for groups and organizations. Typical tasks include:

- deployment and management of several Unix-based servers, with Apache and MySQL services
- managing Ruby on Rails applications on a production environment
- managing Git repositories
- development of helper scripts to automate and facilitate server management

<http://groupbuddies.com>

System administrator

since

2012 Nov

CEB, University of Minho

Computação Colectiva e Controlo em Sistemas
Bioquímicos Complexos

Researcher

2011 Apr to

2012 Sep

CEHUM, University of Minho

Project Per-Fide: Portuguese in parallel with six languages: Español, Russian, Français, Italiano, Deutsch, English

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

Researcher

2009 Jul-Sep

Sapo Summerbits'09

Open source software development

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

<http://softwarelivre.sapo.pt/projects/bigorna/>

Research grant

technical skills

Perl

Including Moose, Catalyst, Dancer, DBIx::Class and other Modern::Perl concepts.

Proficient

Web development

Mostly using Perl frameworks, but also Bootstrap from Twitter, CSS, Javascript.

Proficient

Ontologies and structured documents

XML, XQuery, XPath, JSON and ontology formats: OWL, OBO, RDF.

Experienced

Systems administration, programming tools and methods

Bash, Subversion, Git, \LaTeX , Apache, Agile.

Experienced

Other programming languages

SQL, C, Java, PHP, UML, Haskell, Ruby, Pascal.

education

| | | |
|-----------|---|-------------------------------|
| 2011–2012 | MSc in Bioinformatics <i>Mining biological parameters from literature: an application to environmental decision support systems</i> Development of a modular and extensible framework for building text mining applications for scientific literature, focused on numerical parameters and including a web interface. 120 ECTS, final grade 17/20 | University of Minho, Portugal |
| 2009–2011 | MSc in Natural Language Processing <i>Contributions for building a Corpora-Flow System</i> Development of a system to support automatic handling of corpora (cleaning, validation, format conversion), document alignment and calculation alignability metrics of several types of documents. 120 ECTS, final grade 17/20 | University of Minho, Portugal |
| 2006–2009 | BSc in Software Engineering 180 ECTS, final grade 15/20 | University of Minho, Portugal |

training

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|----------|---|---|
| 2011 Jul | Bang and Olufsen Summer School Conceptual Design and Development of Innovative Products | Struer, Denmark |
| 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 Open Course | Faculty of Arts, University of Porto |

other activities

cesium University of Minho's Software Engineering Student Center

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|---------|--|---|
| 2009/10 | Vice-president | http://cesium.di.uminho.pt |
| 2010/11 | Director at CAOS CeSIUM's Open Source Support Center | http://caos.di.uminho.pt |

programming challenges

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|-----------|---|---|
| 2012 | APPP Perl Code Sprint 3 rd qualified in the Perl programming competition organized by the Portuguese Perl Mongers group. | http://perl.pt |
| 2009 | Microsoft Imagine Cup'09 5 th classified in the national finals. | Lisbon, Portugal |
| 2008 | ACM South Western European Regional Contests International programming competition. | Nuremberg, Germany |
| 2007-2009 | Inter-University Programming Marathon National ACM-style programming competition. | IST'07, UC'08, ESTGA'09 |

sports

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|------------|---|----------------------------------|
| since 1999 | Judo | INATEL; University of Minho |
| 2010-2012 | National Judo University Championships | Aveiro'10, Lisbon'11, Aveiro '12 |
| 2007/08 | Basketball | University of Minho |
| 1998-2000 | Artistic gymnastics | INATEL |

publications

articles in peer-reviewed journal

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

A. Santos, R. Nogueira, A. Lourenço

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

peer-reviewed conferences/proceedings

Structural alignment of plain text books

André Santos, José João Almeida, 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, 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, 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. Cruz, 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

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, Lisbon, September 2011

Preparação de livros para alinhamento

A. Santos

In I Jornadas Internacionais Per-Fide: Corpora e Tradução, 2011

Detecção e Correção 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, Porto, June 2010