# andrésantos

web, language and semantics

#### about

#### address

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> Portugal phone

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birth date

24 Fev 1988

contacts

github.com/andrefs (7) cv@andrefs.com ✓

## languages

native portuguese fluent english basic spanish+french

#### favorite tools

▼ TypeScript, React, Docker, Rust

## looking into

00 Rust, Kubernetes

## interests

Fullstack developer with backend preference, working with Node, is, React, TypeScript, Docker. Interested in semantic web, natural language processing, functional programming, machine learning and web development.

## technical skills

Languages Node.js, TypeScript and Perl

Also Rust, LATEX

**Databases** MongoDB

Also MySQL, PostgreSQL, ElasticSearch

Frameworks **Express, Dancer** Also React, Jest and libraries Other tools Docker, Git, Bash

## relevant experience

2022 Jan to **Decipad. remote –** decipad.com

Interactive notebook to explore data. Typical tasks include: 2023 May

• improving and extending the grammar for an in-house developed language

• implementing logic supporting complex editor components (e.g. code lines)

implementing React components on top of a Slate.js/Plate editor

since Apr 2017 INESC TEC, Porto

Research assistant Guest assistant professor

Software engineer

#### 2018 Oct to University of Minho, Braga

2020 Sep

Teaching MSc classes:

Natural Language Processing

Data Analysis and Visualization

http://di.uminho.pt, elach.uminho.pt

2016 Jul to

Contentful GmbH, Berlin – contentful.com

Headless API-first CMS. Typical tasks included:

2017 Mar

• development and support of multiple Node.js APIs, · implementing React components,

· writing and debugging PostgreSQL query generators.

2013-2015 SAPO, Portugal Telecom, Lisbon Consultant, web developer

JavaScript backend engineer

Largest Portuguese web portal. Typical tasks included:

development and support of 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, Braga –** subvisual.co Sys admin

UX, UI, web and mobile development company

Typical tasks included:

· deployment and management of Unix-based servers, with Apache and MySQL services, and Ruby on Rails applications

· development of helper scripts to automate server management tasks

## education

since Oct 2017 MAP-i Doc. Prog. in Computer Science Fac. of Sciences of Univ. of Porto, Portugal

Semantic measures in large semantic graphs (ongoing)

180 ECTS

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

## 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

2018	<b>Pixels Camp</b> 3rd qualified team with a blockchain-p	https://github.com/luispmiranda/boothchain powered photo booth.
2015	Miniclip Game Jam 3rd qualified and Innovation prize with	https://github.com/subvisual/planet-mocha a space inspired game.
2014	<b>SAPO Codebits Hackathon</b> 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  3rd qualified in the Perl programming organized by the Portuguese Perl Mor	·

2009 **Microsoft Imagine Cup'09**5<sup>th</sup> classified in the national finals.

2008 ACM South Western European Regional Contests
International programming competition.

Nuremberg, Germany

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

National ACM-style programming competition.

### sports

since 1999	Judo, 1st Kyu	INATEL, University of Minho,	Boavista Futebol Clube, Sport Club do Porto
2018	Veterans Open Gold medal	Championship	Associação Distrital de Judo de Lisboa
2018	<b>Veterans Natio</b> Silver medal	nal Championship	Portuguese Judo Federation

2010-2013 National Judo University Championships Aveiro'10, Lisbon'11, Aveiro '12, Coimbra '13

## **publications**

## chapter

José João Almeida, Sílvia Araújo, Nuno Carvalho, Idalete Dias, Ana Oliveira, André Santos, and Alberto Simões. "The Per-Fide corpus: A new resource for corpus-based terminology, contrastive linguistics and translation studies". In: Working with Portuguese Corpora. Ed. by Tony Berber Sardinha and Telma de Lurdes São Bento Ferreira. Bloomsbury Publishing, 2014. Chap. 9, pp. 177–200.

## 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, and A. Lourenço

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

## peer-reviewed conferences/proceedings

#### Derzis: A Path Aware Linked Data Crawler

André Fernandes dos Santos and José Paulo Leal

10th Symposium on Languages, Applications and Technologies (SLATE 2021), 2021

#### DAOLOT: A Semantic Browser

João Bruno Silva, André Santos, and José Paulo Leal

9th Symposium on Languages, Applications and Technologies (SLATE 2020), 2020

#### 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

#### Elasto Mania

A. Santos

In SAPO Codebits VII, 2014

#### Building your own CPAN with Pinto

A. Santos

In Portuguese Perl Workshop'13, 2013

#### "Perl is dead" is dead

A. Santos

In Sapo Codebits VI, 2012

#### Dist::Zilla

A. Santos

In Portuguese Perl Workshop'12, 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