Nuno**Cardoso**

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Personal Information

Name	José Nuno de Pinho Cardoso	**Place of Birth**	Porto – Portugal
Date of Birth	27–05–1988	**Nationality**	Portuguese

Education

Higher Education

Programa Doutoral em Engenharia Informática Faculdade de Engenharia da Universidade do Porto		09–2011 ⇒ 2016	*Porto*
Mestrado Integrado em Engenharia Informática Faculdade de Engenharia da Universidade do Porto	★★★★☆ *(16/20)*	09–2006 ⇒ 06–2011	*Porto*

Secondary Education

Curso Tecnológico de Informática Escola Secundária da Senhora da Hora	★★★★⯪ *(17.5/20)*	09–2003 ⇒ 06–2006	*Matosinhos*

Basic Education

Escola Básica da Senhora da Hora		09–2000 ⇒ 06–2003	*Matosinhos*
École Française de Porto		09–1990 ⇒ 06–2000	*Porto*

Online

Machine learning course – Stanford University	★★★★★ *(98.8/100)*	08–2013 ⇒ 2016	*Coursera*

Experience

Senior Software Engineer *Porto – Portugal*

Fyde/Barracuda *2018 ⇒ Present*

- Developed web scrapper using Python 3 with the computed data deployed on AWS S3
- Developed analytics pipeline using Python 3/Kafka/Elasticsearch/Graphana/Prometheus
- Migrated and led subsequent development of existing IOS app to Android/Windows/MacOS/Linux using ReactNative/Electron
- Experience with continuous integration and deployment environment using Gitlab CI
- Experience with deployments using webpack and docker.
- Experience as team-leader of 3 persons team

Full Stack Developer/Co-Founder

Porto – Portugal

ALUGADOS

2016 ⇒ 2017

- Developed a web-based single-page application using a full stack javascript environment (plain javascript on the frontend and hapi on the backend).
- Experience with deployments using webpack and docker.

Researcher/PhD Student

Porto – Portugal

HASLAB – INESC TEC

2011 ⇒ 2016

Lecturer (Programming I and II)

Porto – Portugal

FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO

09–2013 ⇒ 01–2015

Researcher

Porto – Portugal

CENTRO DE INFORMÁTICA PROF. CORREIA DE ARAÚJO

2010 ⇒ 2011

PROJECTS

ChessOCR

HTTPS://GITHUB.COM/NPCARDOSO/CHESSOCR

2015

A OCR application for chess boards that reads an image, detects the chess boards in it and exports them using the FEN notation. Project developed with Python and OpenCV.

RDS Decoder

HTTPS://GITHUB.COM/NPCARDOSO/RDS_DECODER

2015

A Radio Data System (RDS) decoder implementation. Project developed with C++.

MHS2

HTTPS://GITHUB.COM/NPCARDOSO/MHS2

2011 ⇒ 2016

MHS2 is a heuristic-based approximation algorithm for solving the minimal hitting set/set cover problem. Project developed with C++.

PhD Thesis

HTTPS://GITHUB.COM/NPCARDOSO/PhDThesis

2011 ⇒ 2016

Source code for the PhD thesis and related projects. Projects developed with C++/Java. Thesis written in LaTeX.

Awards

INTERNATIONAL CONFERENCES

Best Paper Award	An Efficient Distributed Algorithm for Computing Minimal Hitting Sets – 25th International Conference on Principles of Diagnosis (DX'14) 09–2014	*Graz*
Best Paper Award Nominee	Enhancing Reasoning Approaches to Diagnose Functional and Non-Functional Errors – 25th International Conference on Principles of Diagnosis (DX'14) 09–2014	*Graz*

INTERNATIONAL PROGRAMMING CONTESTS

9th Place	South Western European Regional Contest (SWERC'08) 23–11–2006	*Nuremberg*

NATIONAL PROGRAMMING CONTESTS

1st Place	Torneio de Programação para Alunos do Secundário (ToPAS'06)	*Porto*
	13–05–2006	
1st Place (unofficial)	Maratona Inter-Universitária de Programação (MIUP'06)	*Covilhã*
	10–2006	
1st Place	Torneio Inter-Universitário de Programação (TIUP'07)	*Porto*
	2007	
1st Place	Maratona Inter-Universitária de Programação (MIUP'07)	*Lisboa*
	20–10–2008	
2nd Place	Torneio de Programação para Alunos do Secundário (ToPAS'05)	*Porto*
	14–05–2005	
2nd Place	Torneio Inter-Universitário de Programação (TIUP'08)	*Porto*
	2008	
2nd Place	Maratona Inter-Universitária de Programação (MIUP'08)	*Coimbra*
	25–10–2008	
3rd Place	Torneio de Programação para Alunos do Secundário (ToPAS'04)	*Porto*
	15–05–2004	

REGIONAL PROGRAMMING CONTESTS

1st Place	Concurso de Programação para Alunos do Secundário (CPAS'06)	*Porto*
	2006	
1st Place	Concurso de Programa da Universidade do Porto (CPUP'07)	*Porto*
	2007	
1st Place	Concurso de Programa da Universidade do Porto (CPUP'08)	*Porto*
	2008	
4th Place	Prémio de Programação Universidade Portucalense (PPUP'04)	*Porto*
	2004	

Publications

- Nuno Cardoso. *Spectrum-based Diagnosis for Run-time Systems*. PhD thesis, Faculdade de Engenharia da Universidade do Porto, 2016

- Nuno Cardoso and Rui Abreu. A kernel density estimate-based approach to component goodness modeling. In *Proceedings of the 27th AAAI Conference on Artificial Intelligence*, AAAI'13, 2013

- Nuno Cardoso and Rui Abreu. An efficient distributed algorithm for computing minimal hitting sets. In *Proceedings of the 25th International Workshop on Principles of Diagnosis*, DX'14, 2014

- Nuno Cardoso and Rui Abreu. Enhancing reasoning approaches to diagnose functional and non-functional errors. In *Proceedings of the 25th International Workshop on Principles of Diagnosis*, DX'14, 2014

Grants

PhD Scholarship

FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA $\qquad$ *01–2012 ⇒ 12–2015*