

Profile

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Nuno A. C. Henriques

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PhD student in Cognitive Science

at Universidade de Lisboa

Skills (relevant): Thinking outside the box; Science and engineering merger; Process improvement; Conceptual analysis for database design; Platform integration architecture; Development and deployment governance; Engineering and technology with Open standards. Aligned with strategic goals as a change agent with energy efficiency.

Previous job main achievements: reduced the power consumption of the data centre in an order of magnitude, while increased processing power and storage; dematerialized the paper needed for dozens of services including tourism agents (entrepreneurs) which changed to Web services; Tourism rose several GDP percentual points during our watch! (at Tourism of Portugal)

1 Activity (relevant)

BioISI — FC/UL

PhD student. FC/UL *campus*, Lisbon, Portugal. January 2015–.

Information Systems Unit (*USI*) — Instituto de Medicina Molecular

IT Architect and Software Engineering Consultant. FM/UL *campus*, Lisbon, Portugal. September 2013–March 2015.

Department of Technology (*DT*) — Tourism of Portugal

IT Architecture and Software Engineering Manager. TP Headquarters, Lisbon, Portugal. April 2009 – March 2011.

Rectory Informatics Office (*GIR*) — UNL

Consultant Engineer (also as a Web Coordinator and Researcher: 2005–2007). UNL Rectory, Lisbon, Portugal. July 2007–July 2009.

Critical Software, SA

Engineer and Project Quality Manager. Aerospace Sector. Portugal. August 2004–February 2005.

2 Academic history + certifications (relevant)

Machine Learning by Stanford University on Coursera. Andrew Ng. Certificate earned on December 11, 2015. Grade: 100%. Verified certificate.

Doctoral Program in Cognitive Science at the University of Lisbon (*UL*). Four years degree. Grade (first-year lectures, advanced studies): 16/20. Three year PhD research and thesis, on-going (ULisboa PhD grant since May 2016). Lisbon, Portugal. 2012–.

MSc in Informatics Engineering at the Faculty of Sciences and Technology of the New University of Lisbon (*FCT/UNL*). Two years degree. Grade (first-year lectures): 17/20. Final dissertation grade: “Very Good” (top grade by unanimous decision). Lisbon, Portugal. 2005.

Graduation in Informatics Engineering at the FCT/UNL. Five years degree. Grade: 14/20. Lisbon, Portugal. 2002.

3 Projects (relevant)

Empathetic agent — An artificial intelligence (AI) companion to humans. Using an Android application to enable interaction between humans and an empathetic artificial agent using mobile devices. The agent resources are Cloud expanded. August 2017–.

Technology: Android; Java; Debian GNU/Linux; PostgreSQL; WSO2 Enterprise Integrator; Apache HTTP server.

INTROBOT — A new multipurpose robot with autonomous and human operated navigation and surveillance capabilities. Mixed reality interface and algorithms to trail and track with camera feed and GPS map. Collaboration: LabMag, INTROSYS, UNINOVA. August 2011–September 2012.

Technology: Ubuntu GNU/Linux; ROS; OpenCV; C++; Qt; JavaScript; Google Maps; GPS; Live RT video camera.

Service Bus — Tourism of Portugal applications' hub. Critical to the organization to assure proper interoperability between applications' services towards an agile dashboard. July 2010–March 2011.

Technology: Debian GNU/Linux; PostgreSQL; Java; WSO2 ESB; REST; SOAP.

Entitas — Tourism of Portugal temporal, limitless and shared database of unique entities (companies and persons). Critical to the organization to assure proper interoperability between applications entities and associated contacts. September 2009–March 2011.

Technology: DBDesignerFork; Debian GNU/Linux; PostgreSQL; Java; ; Apache HTTP server.

TP IT Governance — Open standards orientation for the development team leaders in order to assure proper interoperability between applications. Department portfolio of tens of projects, several platforms including OutSystems Agile, Oracle IAM, WSO2 SOA Platform, Google Gadgets. April 2009–March 2011.

Technology: Web Open standards (W3C); Sharing documentation and collaboration (Web 2.0); ...

TP IT Architecture and Engineering — Reengineering of the data centre and applications technology architecture to assure proper governance and energy efficiency with less resources usage footprint. April 2009–March 2011.

Technology: Blades; Virtualisation; Central storage; Fault tolerance; Sharing and reorganizing documentation; Debian GNU/Linux; ...

Business Intelligence — Statistical data processing to support management. September 2008–July 2009.

Technology: Pentaho; Tomcat; PostgreSQL; Plone/Zope; Java; Python; XML...

UNL Portal (incl. several sub-sites) — New Web platform. January 2006–July 2009.

Technology: Plone/Zope; Python; XHTML+CSS; BASH Script; REST.

MovieGene — A multimedia production system using Evolutionary Computation. 2004–2005.

Technology: Java 1.5 (JMF, Threads, AWT and Swing). ECJ 12 evolutionary library.

HICOD2000 — Project Engineer and Quality Manager. September 2004–March 2005

Technology: C++; PHP; JPEG2000; BASH Script.

EO-KES — Project Manager and Research Engineer. September 2003–December 2003.

Technology: Java; Protégé; WordNet; XHTML+CSS.

PETISCO/MIAU — Project Engineer and researcher. 1999–2003.

Technology: IBM DB2; PETISCO (Prolog); XHTML+CSS.

SPID — FCT/UNL Web pages search engine. 1998–2002.

Technology: Java (*multithreaded*); PostgreSQL; PHP; XHTML+CSS.