

Artur Ventura

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PROFILE

Senior Software Developer Engineer with a cross functional expertise in every level of software development. Developing software on a professional level, in scenarios of hundreds of thousands of users for 12 years. Focused on Applied Artificial Intelligence, in particular Natural Language Processing pipelines.

EXPERIENCE

Tech Lead, Bond Touch, Impossible, Lisbon 2020 - Current

Overseeing the Bond Touch engineering team and technological development (hardware, firmware and software), with responsibilities in hiring, contracting and planning.

Senior Software Engineer (Machine Translation), Unbabel, Lisbon 2017-2020

Training of translation engines, classifiers, design of natural language processing pipelines, maintenance of the engine routing system

Lead Product Software Engineer, Unbabel, Lisbon 2016-2017

Maintenance of existing systems, design and implementation of replacement solutions

Senior Software Developer, FenixEdu, Instituto Superior Técnico 2013-2016

Refactoring of Project Fenix software into reusable software modules, project lead on mobile and LMS, product development, community outreach, social media and public relations.

Software Developer, Simple Tax, Lisbon 2012-2013

Developed frontend and backend features, data analysis and testing. Also developed a RESTful API for SimpleTax.

Software Developer, Project Fenix, Instituto Superior Técnico 2010-2012

Maintenance of currently deployed software and development of new features related to Project Fenix.

Intigos.com 2011-2012

Founded a startup focused on creating a PaaS / Playground specifically directed to web game developers.

Teacher Assistant, Object Oriented Programming, Instituto Superior Técnico

September 2007 - February 2008

Teaching in recitation classes and Project support

Undergraduate Trainee, L²F - Spoken Language Systems Laboratory, Instituto Superior Técnico May 2006 - October 2010

Developing a WordNet using Uninformed Clustering; POWERuf - Optimisation of the FUF Unifier; LIREC - Agent and Multiagent systems.

EDUCATION

Instituto Superior Técnico, Lisboa — MSc in Information Systems and Computer Engineering, 2010

Instituto Superior Técnico, Lisboa — BSc in Information Systems and Computer Engineering, 2007

TEAMWORK

Software@IST Director on Nucleo de Informática do Instituto Superior Técnico - 2005

Instituto Superior Técnico Varsity Rugby Team - 2006-2007

SKILLS

Web frameworks: Django, Ruby on Rails, Spring

Development Environments: Emacs, Eclipse, Xcode

Languages: C, C++, Java, JavaScript, Typescript, Python, Lisp, Perl, PHP, SQL, Swift.

Firmware: Nordic Ecosystem.

PROJECTS

tesseract (2010) - JavaScript Interpreter with a query language similar to Microsoft LINQ designed to help making queries in large persisted domains but with high level descriptions. - <http://www.surf-the-edge.com/2010/02/08/tesseract-transversing-java-domains-usingjavascript/>

LIREC, living with robots and interactive companions (2010) - European Union financed project for the development of synthetic entities and construction of companion robots. - <http://lirec.eu/>

JSC (2010) - A structured superset of JavaScript with support for a class and mixin system and modularisation. - <http://www.surf-the-edge.com/2009/12/21/jsc-a-javascript-object-system/>

JMOP (2011) - Java Meta Object Protocol developed to help doing very complex refactorizations in large codebases - <https://github.com/nurv/jmop>

Sapo TeraPixel (2011) - Part of a team that attempted to make the biggest panoramic photograph in the world for SAPO (an Portuguese ISP). - <http://panoramas.fotos.sapo.pt/>, <http://www.publico.pt/Tecnologia/publicar-na-quinta-de-manha—sapo-apresentapanoramica-de-lisboa-composta-por-18-mil-fotografias-1520229>

BicaVM (2011) - An Java Virtual Machine implementation in JavaScript. <http://badassjs.com/post/12648021003/bicavm-a-jvm-implementation-in-javascript> ,
<http://developers.slashdot.org/story/11/11/21/0454254/javascript-jvm-runs-java>

HONORS

Awarded a Scholarship to work on Project Fenix - 2008 - 2010

PATENTS

Mafalda Sobral Joana Vieira Monica Correa Mendes Artur Ventura Bruno Fonseca Kai Kuosmanen, 2022, **Electronic Device Simulating Physical Touch**. U.S. Patten Application No.: 63/316,523 filed March 04, 2022. Patent pending.

PUBLICATIONS

Julia Ive, Lucia Specia, Sara Szoc, Tom Vanallemeersch, Joachim Van den Bogaert, Eduardo Farah, Christine Maroti, Artur Ventura, Maxim Khalilov **A Post-Editing Dataset in the Legal Domain: Do we Underestimate Neural Machine Translation Quality?** : European Language Resources Association - Language Resources and Evaluation Conference.

Antonio Rito Silva, João Cachopo, Fernando Mira da Silva, Carlos Ribeiro, Luís Cruz, Susana Fernandes, Daniel Ribeiro, Artur Ventura. **The FenixEdu Project: an Open-Source Academic Information Platform** : Elite Award for excellence in implementing Information Systems for Higher Education

Artur Ventura. **JSC : A JavaScript Object System** : Self published