Vasco Sousa

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Profile

Fast learner who works well in collaborative environments, with ten years of experience in all phases of model driven development. Previous collaboration in both academic and industry projects with a Masters in Computer Science. Now persuing a Ph.D. in Computer Science on the subject of defining interaction in domain specific modeling language environments.

Skills

- Portuguese (Mother tongue), English (Fluent), French (Independent User), Spanish (Independent User), Japanese (Basic), German (Basic)
- Extensive knowledge in development and implementation of Domain Specific Languages and Model Transformation processes, with some degree of contextual knowledge in the domain of High Energy Physics, Control Systems, Legacy Systems and abstract development.
- Implementation experience in EMF/GMF, GME and DSL tools development environments.
- Knowledge of C/C++, Java, ATL, XML, EOL, Kermeta, AspectJ, Python
- General knowledge of PHP, SQL, Prolog, ml, CDuce, Action Script 3, Papervision, Drools
- Average web development skills

Work Experience

Teaching Assistant

Sept 2016 – Dec 2016 DIRO, Université de Montreal, QC, Canadá
May 2017 – Aug 2017 DIRO, Université de Montreal, QC, Canadá

- Software Engineering Labs
- Assignment evaluation
- Workgroup management

Organization staff and workshop instructor

September 2010 DSM-TP 2010, DI – FCT – UNL, Caparica, Portugal
September 2011 DSM-TP 2011, LASSY - University of Luxembourg, Luxembourg
September 2013 DSM-TP 2013
July 2017 DSM-TP 2017, DIRO, Université de Montreal, QC, Canadá

- Curriculum development
- Event support
- DSL editor development and Model Transformation workshop instructor

Internship

Jan 2016 – Jun 2016 Fresch Legacy, Montreal, QC Canadá

- Inclusion of model driven techniques in legacy system modernization process.

Scientific Collaborator

Feb 2014 – Aug 2014 LASSY - University of Luxembourg, Luxembourg

- Improvement and implementation of model decomposition techniques
- Eclipse plug-in development

Scientific Collaborator

Oct 2010 – Sept 2012   LASSY - University of Luxembourg, Luxembourg

- Development of an Aspect Model Weaver
- Eclipse plug-in development
- Partial tool architecture specification
- Meta-modelling of Aspect Model and Join Point Model specifications
- Minor management of task scheduling and assignment

Consulting and support in Domain Specific Language development

2008 - 20010   DI – FCT – UNL, Caparica, Portugal

- Specialized support in Domain Specific Languages, Model Transformation and tool prototyping, in the context of their authors work.
- Projects supported include: HALL (a complex control system specification DSL), an adaptability add-on DSL to HALL, IStar editor implementation, modularKAOS editor implementation, DSLTrans (a model transformation DSL), IStar to KAOS and KAOS to IStar transformations, IStar and KAOS aggregate super language, UbiLang (a DSL for ubiquitous multimedia systems), VisualAore (a software engineering DSL), Pattern Tool (a software engineering DSL), BEI (BPM Editor for IPDMS)

Education and Training

2015-Present	Ph.D in Computer Science	Université de Montreal
2007-2009	Master in Computer Science	Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa, Caparica Portugal
1998-2007	Licentiate's Degree in Computer Science Eng.	Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa, Caparica Portugal

Intérêts et Réalisations

Artistic skills and competences experience in free hand drawing (with certification by SynStudio), digital illustration, font creation and sculpting. Trained in dancing (Lindi-hop, Charleston and Blues).

Vasco Sousa   17 April 2017

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Publications

2017	Author of the article: Feedback on How MDE Tools Are Used Prior to Academic Collaboration, Symposium On Applied Computing – SAC 2017
2015	Author of the article: An Expeditious Approach to Modeling IDE Interaction Design, – Multi Paradigm Modeling workshop at Model Driven Engineering Languages and Systems - MoDELS 2015
2011	Co-author of the article: Verifying Access Control in Statecharts, – Journal Electronic Communications of EASST, Volume 50 (Recent Advances in Multi-paradigm Modeling)
2010	Co-author of the article: DSLTrans: A Turing Incomplete Transformation Language, – 3rd International Conference on Software Languages Engineering - SLE 2010
2010	Co-author of the article: UbiLang: Towards a Domain Specific Modeling Language for Specification of Ubiquitous Games, – INForum - Simpósio de Informática 2010
2007	Co-author of the article: Automatically Generating Domain Specific Visual Language Editors for the Purpose of Deriving a Robust HEP Data Analysis Tool, – IEEE 2007 Nuclear Science Symposium and Medical Imaging Conference Conference
2007	Co-author of the article: Towards a full implementation of a robust solution of a Domain Specific Visual Query Language DSVQL for HEP analysis, – CHEP2007 12th International Conference on Computing in High Energy and Nuclear Physics

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