UMA SHANKAR SUBRAMANI

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ASPIRING SOFTWARE ENGINEER

Seeking a challenging and performance oriented career with an organization of distinction which recognizes my true potential and provides me sufficient avenues for professional growth in the industry.

SUMMARY OF SKILLS

- Qualified **individual with B.Tech in Information Technology and currently pursuing MS in Software Engineering from Malardalen University, Sweden,** determined to carve a successful career in the industry.
- Fully conversant with the concepts of **Java Development using Eclipse IDE, Eclipse RCP Applications Development, Eclipse Plugin Development and Model Driven Engineering.**
- Completed projects on **Public Transportation System(SCORE-2011), Automatic Graphical Testing Framework, Treasure Hunt Generator and Visual Studio Add in for proxy object code generation** as part of academic curriculum.
- **Credentials of achieving Topper Position in 10th & 12th Board Examinations.**
- Self motivated, hard working & consistent with a high degree of flexibility, creativity, resourcefulness, commitment & optimism.

Technical Skills

Languages	Java, C#,ASP.Net, C, C++, UML, SQL
Java Platform	J2SE 1.5, J2EE, Swing
Eclipse	Eclipse RCP, Eclipse Plugin Development, EMF, GEF, QVTO, SWT, JFace and SWTBot-
Versioning	SVN
Testing	JUnit
RDBMS Packages	MySQL
Operating Systems	Windows XP, 7
Certification	Sun Certified Java Professional(SCJP 1.5 – 54% Marks)
Mobile Applications	Android Applications Development using ADT
Web Designing	XML and HTML

EDUCATIONAL CREDENTIALS

Pursuing MS, Software Engineering
Malardalen University, Sweden

B.Tech, Information Technology, 2011
Pallavan College of Engineering, Kanchipuram

Higher Secondary, 2007
Government Boys Higher Secondary School, Arrakkonam, 85%

Secondary, 2005
St Andrew's Higher Secondary School, Arrakkonam, 94.4%

Publications

Title: Automatic GUI testing in PRIDE

Synopsis: Presented the paper in the Mini-Conference-2011 held at Malardalen University, Sweden

Projects Undertaken

Title **Public Transportation System-Product Line**

Synopsis The Project proposed at ICSE 2011(International Conference on Software Engineering held in Hawaii) aimed to create a software product line in the public transportation domain. The main goal was to design a product core implementation, on which multiple software products could rely on. Additionally, three software products (instances) had to be developed to demonstrate the reusability of the product core implementation. Two of the three instances are developed using Eclipse IDE and one is developed using NetBeans IDE.

Title **Eclipse plugin for generating a Treasure Hunt Game using Model Driven Engineering Techniques**

Synopsis The goal of this project was to develop an eclipse plugin for generation of a treasure hunt application for Android phones using Model Driven Engineering techniques, Model to Model Transformation and Model to Text Transformation. The technologies used in this project are Eclipse Plugin Development, EMF, QVTO and Acceleo. There should be two separate models, one representing the application and another one representing the phone settings. Using Model to Model transformation, these two models were combined to represent the treasure hunt game model. Then, Model to text transformation was applied on this treasure hunt game model, resulting in the generation of code for the Treasure hunt game.

Title **Automatic Graphical Testing Framework**

Synopsis The goal of this project was to provide a framework to make as easy as possible to automate graphical tests of PRIDE. SWTBot, which is an existing Eclipse automated testing framework had been used for developing this framework. PRIDE was a development environmental based on Eclipse used to build distributed embedded systems developed at Malardalen University, Sweden. Result of this work was intended to be used by PRIDE developers to make integration tests and by analysis providers to test their tools

Title **Visual Studio Add-in for proxy object code generation**

Synopsis The project aimed at implementing an add-in for Visual Studio 2008 that could inspect an existing Smart Device component and generate source code for a new component providing proxy objects to the original component. The add-in should be able to inspect a .NET or COM component and display its provided classes with interfaces and operations in a graphical user interface where the user can select what should be available in the new component. It should also allow the user to make some adjustments to the exported functionality, for example to automatically add simple logging of operation invocations of selected operations.

Master Thesis

Title **Concurrent modeling support in Eclipse**

Synopsis The purpose of this thesis is to develop an eclipse plugins for providing concurrent modeling support in Eclipse. Whenever a model element was edited by one user, appropriate locks have to be activated in order to avoid other users to operate conflicting changes on the same element. CDO, which is a model repository for EMF models and allows concurrent editing of EMF models, is used for achieving concurrency. The

technologies used in this thesis work are Eclipse RCP application development, Eclipse plugin development, CDO and DAWN.

Extra-Curricular Accolades

- Finalist in the ICSE(International Conference on Software Engineering) held at Hawaii in 2011
- Achieved Topper Position during the 10th & 12th Standard Board Examination

Date of Birth: 28th Nov, 1988
Languages Known: English & Tamil
References: Available on request