

Rina Singh

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Personal Details

Nationality – Nepalese

Address: Tennessee Tech University

Areas of Interests

Data Mining, Software Engineering, Web application, Business Intelligence, Database, Semantic Web (Linked Data), Mobile Computing.

Education

Master's Education

Degree: Master of Science in Computer Science – Information Architecture track, (2009-2012)

University: Delft University of Technology (TU Delft), The Netherlands

Relevant Courses- Web & Semantic Web Engineering, Optimization Logistic, Software Architecture, Information Retrieval, Design of Innovative ICT infrastructures and services.

Bachelor's Education

Degree: Bachelor of Engineering in Software Engineering (BESE), (2002-2006)

University: Nepal College of Information Technology (NCIT), Nepal

Relevant Courses- Java Programming, Distributed Operating System, Artificial Intelligence, Algorithm Design, Image processing, Microprocessor, Computer Architecture

Research Experience

Research Intern (Tsinghua University, China) (July 2013 – Aug 013)

Description: The research was in the field of Semantic Web and Social Network Analysis. I was working on a paper in group. The work goal was to identify the user identity of same user from different social network. I was trying to use factor Graph model to achieve the goal, my role was to come up with the ontology Alignment approach to achieve the required goal.

GUI for Silk-A Link Discovering Framework: M. Sc. Thesis (TU Delft, Netherlands) (Dec 2010 – March 2012)

Description: The thesis was on the subject of Linked Data in the context of Semantic Web. In the field of Linked Data interlinking previously unlinked datasets that are available on the Linked Open Cloud is still a big challenge. Silk is one of the tools which allow one to do interlinking between data items within different Linked Data sources. The main goal of the thesis was to simplify the process of specifying linking conditions using Silk. Specifying the correct conditions in the Silk Linking Specification Language (Silk-LSL) is a complex task where a helpful interface can make a large difference. I worked on a graphical user interface that simplifies the task of writing Silk-LSL programs. The interface for example allowed to view the conditions as an interactive tree, and offered suggestions for class selection conditions and step expressions in path expressions.

Nepali OCR Using ANN: Bachelor Thesis (NCIT, Nepal) (May 2006 – Oct 2006)

Description: The main purpose of the project was to recognize printed Nepali characters using Neural Network approach and it was achieved by training three-layer Neural Network which was able to recognize the full set of 46 Nepali characters.

Work Experience

Software Engineer Trainee (D2hawkeye services, Nepal) (Oct 2008 – Feb 2009)

Description: It is an outsourcing company and the main objective is web application design and development, QA and Testing Services and Data cleansing/Mapping/Analysis of health-care/Insurance USA Company. I worked in quality and Assurance department. My task was to verify the data send by the Analysis team by using Oracle and then send it to other team where they verify the same thing using GUI.

Software Skills

Programming languages: Java, C/C++

Scripting Language, web: PHP, XML, XSLT, RDF/OWL, Silk-LSL

Query Language: SQL, Sparql, MySQL, Oracle

Tools: Protege, Silk Framework, Sesame

Language Skills

Maithali-Native

Nepali- Fluent

English- Fluent

Hindi- Good

Chinese-Basic

Awards

Girls Free Ship for Bachelor Programme – 2005 (6 months)

Netherlands Fellowship Programme for Master Programme – 2009- 2011 (2 years)