Madhu Surya

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Interests Algorithms, Databases, Web Technologies.

Professional Experience

- *As an Entrepreneur:* RK Technology Services - *Founded by me in May 2013*

  Primarily a consultant in Web Technologies and Distributed Computing Services.
  - Data ware-housing consultant for computer science department, Naval Science & technological Laboratory (NSTL), a Defense Research & Development Organization at Visakhapatnam.
  - As a consultant software engineer for Front end of **yourevent.co** – was a part of the design & development team at the company.
  - Also an ANSYS, software consultant for reputed firms like Kirloskar (P) Ltd., Hyprecision Hydrauliks (P) Ltd., York India (P) Ltd.
- As a Project officer: Andhra University (AU) from January, 2011 - September, 2011.
  - Developed a project *"DBSoft-Vibration software for Onboard Vibro-Acoustic Machinary"*.
  - Currently in use at NSTL, Visakhapatnam.
  - It also happens to be my B.Tech Final Year Project.

Education

Gandhi Institute of Technology and Management, Visakhapatnam, AP.

- M.Tech in Software Engineering,April 2013.
  - Top 1% of class.
  - GPA of 8.47 /10.
  - Area of Study: Software Effort Estimation Using Fuzzy Logic.

Jawaharlal Nehru Technological University, Kakinada, India.

- B.Tech in Information Technology & Engineering, June 2011.
  - Topper in a class of 200.
  - *Percentage* of 71.6 (translates into a GPA of 9.11/10)
  - *W*ith High Honors in Systems Security.
  - Thesis Title : DBSoft-Vibration database for onboard Vibro-Acoustic machinary

Major Projects

- *DBSoft-Vibration database for onboard Vibro-Acoustic machinary .* This software was developed to index the status of on-board Vibro-Acoustic machinery. To do this, we calculate the vibration levels at each frequency which it is transmitting to the support on which it is based. Vibration data will be compared with acceptable levels and possible reasons for the excessive vibration levels can be predicted and possible remedial measures will be suggested to bring down the vibration levels to within the limits and in-turn mitigate the underwater radiated noise levels. The

major modules of this project include the conversion of data from the frequency domain to time domain using Fourier transforms and designing the back-end for the application.

- *Software Effort Estimation Using Crisp with Fuzzy logic:* Software effort estimation accuracy is a major challenge in the study of software engineering. The limitations of the algorithmic effort estimation models are their inability to cope with uncertainty and imprecision in software project at early development stage. To overcome these uncertainties soft computing techniques were used to estimate effort accurately. The soft computing methods are promising methods for getting accurate results for effort estimation. There are several metrics to estimate software effort but still size has its first place. In this project we are using Type-2 Fuzzy logic to reduce size so that effort of a software project is reduced.

Public Talks & Presentations

- Presented on various facets of Software testing in the technical tests of GITAM, JNTU, AITAM, SISTAM and Avanthi Colleges.

Technical Skills

Programming: C, C++

Applications: LaTeX, Microsoft Office,Eclipse and other common productivity packages for Windows, OS X, and Linux platforms

Operating Systems: Apple OS X, Linux – Ubuntu and other UNIX variants.

Relevant Course Work

Software Estimation and Testing.