

Rosina Surovi Khan

Education:

- **Doctor of Philosophy in Computer Science & Engineering,**
  University of Texas at Arlington (**Coursework Completed**). Link: www.uta.edu **(2007-2008)**
- **Master of Science in Software Technology**, (**2003 –2005)**
  Stuttgart University of Applied Sciences, Germany.
  GPA: 2.1 on a scale of 1.0 . Web link: www.hft-stuttgart.de
- **Bachelor of Science in Computer Science & Engineering,** **(1996 –1999)**
  Ahsanullah University of Science and Technology (AUST), Bangladesh.
  CGPA: 3.96 on a scale of 4.0. Web link: www.aust.edu

Software Skills:

- **Operating System:** Unix, Linux and Windows environment.
- **Programming:** Java, C/C++, C#, PHP, HTML, JavaScript, VB, Assembly, ASP.NET, VB.NET.
- **Databases & Info Management:** SQL, Oracle, MS Access, MS Excel.
- **Technology:** OOP, UML.
- **IDE & Others:** Eclipse, Visio, Visual Studio 2008, Microsoft SQL Server 2005, MySQL.

Communication Skills:

- Fluency in English and Bangla, some experience with German.
- Experience in managing and interacting with people of all cultures.

My Personal Website:
https://rosinaskhan.vercel.app (More about this later.)

Job Experience:

July 2011-June 2014

- Achieved promotion to high potential Associate Professor and in service in the Department of Computer Science and Engineering in AUST and delivered improvised lectures on the following undergraduate courses:
  - Database
  - Database Lab (SQL Programming, Usage of Microsoft SQL Server

This post involved lecturing about 50 students per section. There may be up to two or three sections per semester and year. I also had to take the role of guiding about maximum 25 students in database labs, contributing to them ideas and concepts regarding database design. This began from entity relationship diagrams/models, converting these to relational schema (tables), normalizing the tables, if needed, utilizing these ideas in designing databases in Microsoft SQL server and subjecting complex

SQL queries to their systems. I usually let groups of 2 students work on mini database projects. Initially I gave these groups assignments on entity relationship modeling, relational modeling and normalization of their table schemas tailoring them to their mini projects.

Additionally, I supervised 4th year students' projects in groups of four using ASP.NET, Visual Studio, C#, PHP, Microsoft SQL Server, MySql and let those students work on their chosen systems approved by me. They worked on systems like Electronic Human Resources System, Real Estate Management Systems, E-Agriculture-Farmer System and many more by developing front ends and back ends and connecting them both. Students under my supervision also worked on theses in areas of information management, databases and data mining with the usage of Microsoft SQL Server. Some of these works are Designing and Interfacing a Hospital-based Database System (A Case study of BIRDEM), Text Mining of Online Bookshop Customer Reviews, Designing and Mining of a Blood Bank Database Management System and many more. This role required grading theory, lab and project/theses of students in Excel sheets.

I resigned from the above post because I fell into spirals of depression and illness and finally overcame and formed a burning desire to continue my career and eventually work as a faculty member in a reputable university abroad for a more challenging, motivating and satisfying experience, and share my valuable expertise on the other hand.

Jan 2009-July 2011 and April 2005-Jan 2007

- Tailored successfully as Assistant Professor in Ahsanullah University of Science and Technology (AUST), Bangladesh. The gaps in between the years make up for the study leaves of two years I took during Masters and PhD studies. The duties in the post are similar to the above with fewer responsibilities but I taught courses including Databases, guiding Database Lab experiments using Microsoft SQL Server, which included designing of database systems, restore and backup of database files and complex querying in SQL.

Jan 2007-Aug 2008

- Appointed in the active role as Teaching Assistant in the courses Programming Lab in C, Artificial Intelligence I, Compiler Design and Programming Languages in the University of Texas at Arlington, USA during PhD studies. The responsibilities included guiding Labs, grading assignments and exam answer scripts preliminarily in Excel sheets for my supervisors, and also invigilating exams.

Aug 2004-Feb 2005

- Completed as a trainee, Masters Thesis required in part for **Masters of Science degree in Software Technology**. Topic of Masters thesis: "**Development of a Software-Based IT-Maintenance System at InfoCom GmbH"** implemented in the company InfoCom GmbH, Rotebühlplatz 21, D-70178 Stuttgart, Germany in affiliation with Stuttgart University of Applied Sciences, Germany. The thesis comprised of designing an interface for an SQL-based IT-Database using PHP, JavaScript and HTML. The interface consisted of reports and data-entry forms.

Nov 2002-March 2003

- Attained an honorable promotion to Assistant Professor in Ahsanullah University of Science and Technology, Bangladesh and in service during this period. This role included activities and duties similar to those mentioned before in the post of Assistant Professor in previous sections.

Sept 1999 – Nov 2002

- Earned the post of a promising Lecturer in Ahsanullah University of Science and Technology, Bangladesh and taught the following undergraduate courses in Computer Science:
  - Fundamentals of Computer,
  - Computer Fundamental Lab,
  - Databases,
  - Databases Lab (SQL),
  - Computer Architecture,
  - Microprocessors,
  - Microprocessors Lab,
  - Programming Language-I Lab (C),
  - Programming Language-II Lab (C++),
  - Software Development Lab (in C),
  - Data Structure Lab (in C).

  In addition, this post required grading of answer scripts for the courses I taught, invigilation of exams and scrutiny of other teachers' corrected answer scripts in their courses in the department.

Publications:

a) ***The Asset and Maintenance Management System (AMMS) Project*** published in the online journal "International Journal on Computer Science and Engineering (IJCSE)", Volume 2, Issue No 4, 2010, pp 1126-1135, ISSN No: 0975-3397, Chennai, India, Single Author.
Weblink: http://www.enggjournals.com/ijcse/issue.html?issue=20100204

b) ***Supervising and Managing Student Projects*** accepted in "International Conference on Computer Supported Education", August 9-10, 2010, Kathmandu, Nepal and published in proceedings at: Wireless Information Networks & Business Information System Proceedings, Volume 6, Issue no 3, ISSN No: 2091-0266, Single Author.

c) ***Design of a Hospital-Based Database System (A Case Study of BIRDEM)*** published in the online journal "International Journal on Computer Science and Engineering (IJCSE)", Volume 2, Issue No 8, 2010, pp 2616-2621, ISSN No: 0975-3397, Chennai, India, First Author: Self, Second Author: Mohammad Saber.
Weblink: http://www.enggjournals.com/ijcse/issue.html?issue=20100208

d) ***Interface Design of a Clients-Server Distributed System*** published in Proceedings of Conference on Engineering Research, Innovation and Engineering (CERIE-2011), Organized by School of Applied Sciences and Technology, Shahjalal University of Science and Technology, January 11-13, 2011, pp 418- 423, ISBN 978-984-33-2140-4, Sylhet-3114, Bangladesh, Single Author.

e) ***Study and Comparison of Approximate String-Matching Algorithms*** (**ICISCEA)** published in International Conference on Information System, Computer Engineering & Application, Nov 2011, pp 81-90, ISSN No: 2091-0266, Singapore, Self, Syeda Shabnam Hasan & Fareal Ahmed

Summary:

- I feel the opportunities for an even much more challenging, motivating and satisfying experience are far better golden abroad where I not only learn but also share and contribute my enriching and valuable expertise.
- Climbed the upward ladder from promising Lecturer to high potential Associate Professor in the private university in Dhaka, Bangladesh.
- Actively contributed improvised lectures in Database theory and lab to undergraduate students while climbing the prospective ladder.
- Gained great expertise in Databases, Information Management and Data Mining, as well as usage of Microsoft SQL Server and MySQL.

- Experience in working individually and in teams, as well as excellent in managing and supervising them.
- All along, demonstrated the capacity to learn innovative skills fast and quick and applied them to new situations, as required.
- Played the active role of teaching assistant in Arlington, Texas during PhD studies.
- Published five scholar papers in conferences and journals.
- Achieved successfully a Masters of Science degree in Software Technology in Stuttgart, Germany.
- Highly skilled in Documentation.
- Great command over written and spoken English.

Other Expertise:

- Played the role of External Reviewer in sixteen manuscripts till date in the US Computer Science journal, Horizon Research Publishing Corporation.
- Authored twenty-one great fiction short stories, a useful Academic Guide on Software Engineering, titled, “The Dummies’ Guide to Software Engineering”, another valuable guide on Database Systems, “The Dummies’ Guide to Database Systems: An Assembly of Information. An Easy-to-Understand Guide Even for Laypeople”, a great Academic Guide on Compilers, “The Dummies’ Guide to Compiler Design” and a superb Academic Guide on Algorithm Analysis and Design, “The Magical Guide to Algorithm Analysis and Design”, all published on free-ebooks.net, a popular and secure site visited by millions and millions of avid readers per month.
- Authored Short Stories and Memoirs and contributed to Steve Carr’s published Anthologies (Publisher: SweetyCat Press), “Beautiful”, “Movement”, “Jewels in the Queen’s Crown”, “Zooanthology”, and “The Gift.”
- Authored and self-published eighteen prospective Self-Help eBooks.
- Had the rank of Diamond Expert Author in EzineArticles.com where I had written 395 articles on Self-Help, Computers and Technology, Women’s Interests and other categories including Arts & Entertainment->Humor and got them published. In recent years, the site evolved and changed its structure, without retaining the data of the older version
- Also, have authored separate personal blogs on Cool, Eye-Catching Thoughts on Golden Topics, Research in Database Systems, Tips on Self-Help, Detailed Previews of My Books & Focus and Discussion of the first few chapters of my Academic Guide on Database Systems.
- Have also authored and got published 200+ drabbles, articles, and short stories on Medium.com.
- During leisure, I not only love to write but also sing to myself, play a special native musical instrument (harmonium), and experiment with cooking as well.

All the above criteria under the last category (Other Expertise) including my scholar papers can be found online on my website: https://rosinaskhan.vercel.app

Bonus:

My books on self-help, fiction, and academic guides, also glamor articles, personal essays, and drabbles of 100 words on Medium.com are all digital, and along with inspirational quotes and large images of my books, they have also been assembled in a Facebook page whose link is given here: https://www.facebook.com/RosinaSKhan.hub.If you think it is up to the mark, I would request you to like the page.

References:

Upon Request