

Emdad Ahmed, Ph.D

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SUMMARY OF QUALIFICATION

- More than 25 years of university teaching experiences in Australia, CANADA and USA
- Can teach any course of Computer Science/Engineering (Algorithms and Problem Solving, Operating Systems, Systems Programming I & II, Object Oriented Design and Development, *Computer Networking and Security, Database Theory, Internet/Web Programming, Software Engineering, Programming Languages, Compiler Theory, Data Structures, Algorithm Analysis/Development*) and Discrete Mathematics
- 4 years of Database programming experiences including Oracle PL/SQL, SQLite
- Have strong knowledge of core computer science courses
- Skilled in Java / C / C++ / C# / Python/ Prolog AI programming
- Have hands on experience of TCP/IP networking, Network Security, Systems Administration
- Have solid knowledge of Internet Programming, client and server side scripting
- Canadian Citizen and U.S. Permanent Resident

EDUCATION

Ph.D (Major in Computer Science, Minor in Electrical and Computer Engineering)
Wayne State University, Detroit, MI, USA **[May 2011]**
Dissertation: Post Processing Wrapper Generated Tables for Labeling Anonymous Datasets
Advisor: Dr. Hasan M. Jamil

Master of Engineering Science in Computer Science and Engineering **[July 2001]**
University of New South Wales, Sydney, Australia

Master of Business Administration **[November 1998]**
Major: Development Management
Institute of Business Administration (IBA), Dhaka University, Bangladesh

MSc. Engg (Computer) (*completed theoretical courses only*) **[May 1995]**
Bangladesh University of Engineering and Technology

B.Sc Engg (Computer Science and Engineering) **[January 1994]**
Bangladesh University of Engineering and Technology

JOB HISTORY

Tenure Track Assistant Professor **August 2022 – till date**
Department of Mathematics and Computer Science
College of Engineering, Science, Technology, and Agriculture
Central State University
[Wilberforce, OH 45384](#)

Assistant Professor **August 2020 – July 2022**
Department of Computer Science
College of Computing and Software Engineering
Kennesaw State University
Kennesaw, GA 30144

Visiting Assistant Professor **October 2017 – July 2020**
Department of Computer Science and Software Engineering
Miami University
Oxford, OH 45056

Assistant Professor **August 2016 – August 2017**
Department of Computer Science
Lakehead University
Thunder Bay, ON P7B 5E1

Assistant Professor **August 2014 – May 2015**
Computer Science Department
Winona State University
Winona, MN 55987

Assistant Professor of Computer Science
Department of Business and Computer Science
Lock Haven University of Pennsylvania
Lock Haven, PA 17745

August 2013 - May 2014

Assistant Professor of Computer Science
Department of Natural and Applied Sciences
Cheyney University of Pennsylvania
Cheyney, PA 19319

August 2012 - May 2013

Assistant Professor
Department of Electrical Engineering and Computer Science (EECS)
North South University (NSU)
Dhaka, Bangladesh

June - December 2011

Post Completion Optional Practical Training (OPT)
Montana State Universityt Billings/Wayne State University

January – May 2011

Instructor
(On F-1 Curricular Practical Training (CPT))
College of Technology
Montana State University Billings
Billings, MT 59102, USA

September – December 2010

Graduate Teaching Assistant, Instructor
Department of Computer Science, Wayne State University
Detroit, MI, USA

January 2006 – August 2010

SELECTED RECENT PUBLICATIONS

1. Jacob Baggs, **Emdad Ahmed**, “Use of Traditional Database Methodology for a Vaccine Passports Database and Scaling it for Real World Application”, 7th **IEEE** International Conference on Big Data Analytics (ICBDA 2022) Guangzhou, China March 4-6, 2022, pp 16-24
2. **Emdad Ahmed**, Matherly Craig, Scott Payne, “Personalized Secure Communication”, ISCA 33rd International Conference on Computer Applications in INdustry and Engineering (**CAINE** 2020), October 20, 2020, pp 1-10
3. Narayan Debnath, Mario Peralta, Carlos Salgado, Lorena Baigorria, Germán Montejano, Daniel Riesco and **Emdad Ahmed**, “A Strategy to Evaluate and Measure the Degree of Openness of Cloud Services Environment”, 32ND International Conference on Computer Applications in Industry and Engineering (**CAINE** 2019), San Diego, USA, September 30 – October 2, 2019, pp 1-10
4. Phillip Osial, Kalle Kauranen, **Emdad Ahmed**, “Smartphone Recommendation System Using Web Data Integration Techniques”, 30th **IEEE** Canadian Conference on Electrical and Computer Engineering (CCECE 2017), Windsor, ON, CANADA, April 30 - May 3, 2017, pp 1182-1186
5. **Emdad Ahmed**, “Theoretical Proof of Discriminative Power of L V Pattern for Labeling Big Anonymous Datasets”, 30th International Conference on Computer and Their Application (**CATA** 2015), ISCA, Honolulu, Hawaii, USA, March 9-11, 2015, pp 131-136
6. **Emdad Ahmed**, “Discriminative Power of L V Pattern for Labeling Big Anonymous Datasets”, 29TH Annual Spring Pennsylvania Association of Computer and Information Science Educators (**PACISE**) Conference, California University of Pennsylvania, USA, pp 19-28, April 4-5, 2014 (**Best Paper Award**)
7. Jeremy Black, Bryan Freed, Jeremy St Clair, **Emdad Ahmed**, “A SURVEY OF SECURITY IN THE VIRTUAL COMPUTING CLOUD”, 29TH Annual Spring Pennsylvania Association of Computer and Information Science Educators (**PACISE**) Conference, California University of Pennsylvania, USA, pp 62-68, April 4-5, 2014
8. **Emdad Ahmed**, “The Art of Getting Computer Science PhD”, ISBN 978-1-479-78964-1, 119 pages, Published by Xlibris, USA, February 6, 2013
9. **Emdad Ahmed**, “Labeling Anonymous Datasets”, ISBN 978-3-659-26056-8, 100 pages, Published by Lap Lambert Academic Publishing, **Germany**, October 11, 2012

10. Asif Khan, Tamim Iqbal, **Emdad Ahmed**, Muhammad Abdul Awal, "Multiple Parameter Based Clustering (MPC): Prospective Analysis for Wireless Sensor Network using K-Means Algorithm", International Journal of Wireless Sensor Network, pp 18-24, Vol 4, No 1, January 2012

11. **Emdad Ahmed** "Achieving Classification and Clustering in One Shot Lesson Learned from Labeling Anonymous Datasets", 4th **IEEE** International Conference of Semantic Computing (**ICSC** 2010), Carnegie Mellon University, USA, September 22-24, 2010, pp 228-231

12. **Emdad Ahmed**, Hasan M. Jamil, "Post Processing Wrapper Generated Tables for Labeling Anonymous Datasets", **ACM** 11th International Workshop on Web Information and Data Management (**WIDM** 2009), co located with **CIKM** 2009, Hong Kong, China, November 2-6, 2009, pp 63-66

13. **Emdad Ahmed**, "Resource Capability Discovery and Description Management System for Bioinformatics Data and Service Integration - An Experiment with Gene Regulatory Networks", 11th International Conference on Computer and Information Technology (**ICIT** 2008), pp 70-75, Technical co-sponsor **IEEE** Bangladesh Section, Khulna, December 25-27, 2008

14. **Emdad Ahmed**, "Bioinformatics Web Data and Service Integration – An Experiment with Gene Regulatory Networks", 5th International Conference on Electrical and Computer Engineering (**ICECE** 2008) Technical co-sponsor **IEEE** Bangladesh Section, Dhaka, December 20-22, 2008 pp 56-61

15. **Emdad Ahmed**, "Use of Ontologies in Software Engineering", 17th International Conference on Software Engineering and Data Engineering (**SEDE** 2008), ISCA, LA, USA, June 30- July 2, 2008, pp 145-150.

INTERNATIONAL PROGRAM COMMITTEE MEMBER

- International Conference on Computer and Information Technology (ICIT) (Since 2013) (<https://iccit.org.bd/2021/technical-committee/>)
- International Conference on Computer and Their Applications (CATA) (Since 2015) (<http://web.cs.iastate.edu/~lmiller/CATA2019/programcommittee2019.pdf>)

REVIEWER Expert Systems Journal, ISCA Journal , IEEE INDIN, CATA, ICIT, IEOM

GRADUATE COURSES TAUGHT

- Artificial Intelligence for Security and Privacy
- Machine Vision
- Database Management Systems
- Advanced Operating Systems
- Design and Analysis of Algorithms
- Web Data Integration
- Internet Engineering

TEACHING

- Internet Programming/ Advanced Web Programming/ Internet and Web Technology
- Artificial Intelligence
- Machine Learning
- Operating Systems, Systems Programming I & II
- Database Management Systems
- Design and Analysis of Algorithms
- Algorithms and Data Structures (C++/Java)
- Introduction to Assembly Language Programming and OS
- Computer Architecture and Organization
- Computer Networks, Advanced Computer Networks
- Data and Computer Communications
- Network Security, Network Systems Administration, Computer Systems Administration
- Object Oriented Design and Development
- Fundamental Structures in Computer Science/Discrete Mathematics
- Algorithms and Problem Solving I (Java)/ Applied Introduction to Java
- Visual Basic I / Advanced Visual Basic
- Basic Principles of Computers/Introduction to Computers
- Introduction to C & UNIX
- Problem Solving and Programming (Python)
- Introduction to C++ Programming Language

- Fundamentals of Computer Programming/Computer Programming I
- Theory of Computation
- Programming Language Principles
- Compiler Construction
- Artificial Intelligence
- Introduction to ASP.NET
- Computer Simulation and Modeling
- Numerical Analysis
- Intermediate Algebra

PhD Dissertation Reviewer/Examiner

News Sensitive Stock Predictive Model (NSSPM)

MSc THESIS SUPERVISED

1. A Novel Approach of Parallel Downloading in Wireless Networks
2. Performance Analysis of Integrated Service over Differentiated Service for Next Generation Internet

KNOWN PROGRAMMING LANGUAGES

C/ C++/ C#/ JAVA/ Visual Basic/ Perl/ Prolog/ ORACLE PL/SQL/ Python

SCRIPTING LANGUAGES JavaScript, Perl, ASP/ ASP.NET, PHP, Java Servlet, JSP

TOOLS Visual Studio 2019, Sun Java Studio Enterprise 8.0. NetBeans 8.2, Eclipse, Alice, Dreamweaver CS4, XAMPP, Lex and YACC, CCNA Network Simulator, WireShark, OPNET

Higher Education Management tools

Canvas, Blackboard, Desire2Learn Collaborate Ultra, Cisco WebEx, PowerCampus, TracDat

Databases MySQL, Oracle, SQL Server, Microsoft Access

AI Tools iProlog, XSB

Business/Scientific Workflow Tools Taverna 1.7, ActiveVOS 6.0

Ontology Development Tool Protégé

OPERATING SYSTEM WINDOWS 10; UNIX/SOLARIS/ Linux; Mac OS, VMWare

Web Server IIS, Apache Tomcat 5.5, AXIS 1.4

Database Application Development

- School Profile Form (about 10000 record)
- Student Application Form (about 1 million record)
- Semi-Annual Student Monitoring Form (about 1 million record)
- Semi-Annual School Data Form (10000 record)
- Quarterly District office Data Monitoring Form (500 record)
- Semi-Annual Stipend disbursement report
- Semi-Annual Bank report of Stipend Disbursement
- Business application for an insurance company (using PL/SQL)
- Industrial Management Software
- OODBMS design using CRC, use cases, sequence diagram, UML design and implementing by ObjectStore PSE, JDBC, mSQL, PHP, Java Servlet, Apache web server
- Reverse Engineered *www.Ticketek.com.au* system (an Online Booking System in Australia/NewZealand) using Informal Requirement analysis; Structured Analysis; DFD; Formal Specification using B
- Experimented with ActiveVOS 6.0 and Taverna 1.7 to implement Web Services (JWS, WSDL, BPEL, SOAP, Apache Tomcat, AXIS etc.)
- Experimented with JSON, Google AJAX and Yahoo! BOSS Search API
- Developed Java tool for labeling anonymous datasets
- Developed tool for Pre-advising EECS students of NSU

AWARDS/EXCELLENCE

- Obtained Australian Government Scholarship (**AusAID**) for pursuing MS University of New South Wales, Sydney, Australia [June 1999 –July 2001]
- Stood **1st** in the admission test of Bangladesh University of Engineering and Technology (BUET) (out of 4000 top students of the country) [March 1988]
- Obtained Graduate Teaching Professional Travel Award (2007-2008), Department of Computer Science, Wayne State University to attend SEDE 2008, ISCA Conference in LA, USA (June 30 – July 2, 2008)
- Obtained Graduate Teaching Professional Travel Award (2009-2010), Department of Computer Science, Wayne State University to attend ACM WIDM 2009, Hong Kong, China (November 2-6, 2009)

MEMBERSHIP OF PROFESSIONAL ORGANIZATION

- Senior Member #94015209 of IEEE Computer Society (CS), Institutions for Electrical and Electronics Engineers
- Senior Member #3544784, Association for Computing Machinery (ACM)

REFERENCES

Available upon request