

DINESH S. REDDY

1001 Leadership Place, Killeen, TX 76549
254-519-5475 dreddy@tamuct.edu

EDUCATION

Ph.D. The University of Texas at San Antonio. 2017.

Major: Information Systems and Cybersecurity

M.Tech International Institute of Information Technology (IIIT), Bangalore. 2007.

Major: Information Technology

B.E. Sri Jayachamarajendra College of Engineering, Mysore. 2001.

Major: Electrical and Electronics

PROFESSIONAL EXPERIENCE

(Overall 14 years: 10 years in IT Industry and 4 years in Academics)

Texas A&M University Central Texas (Business School).

Jun 2018 – Till date.

- Assistant Professor, Information Systems & Cybersecurity

University of Colorado, Denver (Business School).

Aug 2017 – Jul 2018.

- Instructor, Information Systems & Cybersecurity

The University of Texas at San Antonio, College of Business, TX.

Sep 2013 – Aug 2017.

- Research Assistant, Information Systems & Cybersecurity

MSys Technologies Pvt Ltd, Chennai. Reported to Atlanta (GA), Sunnyvale (CA) Feb 2013-Jul '13

- Senior QA Manager

Hewlett Packard (HP) India Software Operations Pvt Ltd, Bangalore.

Aug 2010-Nov 2012

- Technology Consultant (SQE3)

EMC² Data Storage Systems India Pvt Ltd, Bangalore.

Jan 2007-Aug 2010

- Software Quality Engineer

CBay Systems India Pvt Ltd, Bangalore.

May 2004-Jul 2005

- Software Testing Engineer

Reliance InfoStreams Pvt Ltd, Mumbai.

Sep 2001-May 2004

- Application Test Engineer

PEER-REVIEWED JOURNAL PUBLICATIONS (UNDER REVIEW)

1. Reddy D., Dietrich G., Rao V., Warren J., Dykes J. Exploring Factors Influencing Self-efficacy in Information Security.
– Manuscript is under review at “Journal of the Association for Information Systems (JAIS)”.
2. Reddy D., Rao V., Dietrich G. Cybersecurity Training and the End-User: Pathways to Compliance.
– Manuscript is under review at “Computers and Security” journal.
3. Reddy D., Khuntia J. Medical Practitioners’ Perception of Satisfaction with Cybersecurity Strategy: An integration of multiple theoretical perspectives – Manuscript is under review at “International Journal of Information Management (IJIM)”.

PEER-REVIEWED JOURNAL PUBLICATIONS (OTHER)

1. Reddy D., Dietrich G. Identifying Multiple Categories of Cybersecurity Skills that Affect User Acceptance of Protective Information Technologies.
– Preparing manuscript to submit to “Computers and Security”.
2. Reddy D., Dietrich G. Is Self-efficacy in Information Security Better Modeled as a Predictor Variable or a Mediator Variable to Increase Compliance?
– Preparing manuscript to submit to “Behavior and Information Technology”.
3. Reddy, D., Dietrich, G., Rao, V. Self-Efficacy Studies Applicable to Multiple Aspects of Cybersecurity: A Systematic Review of IS Literature.
– Preparing manuscript to submit to “Journal of Computer Information Systems”.

PEER-REVIEWED CONFERENCE PRESENTATIONS

1. Reddy D., Khuntia J., Khathuria A., Permwonguswa S. (2017). Medical Practitioners’ Perception of Satisfaction with Cybersecurity Strategy (ICIS SIGSEC WISP, Dec 2017)
2. Reddy D., Dietrich G. (2017). Why are Protective Information Technologies not Effective? A Closer Look at IT and Security Alignment. (ICIS SIGSEC WISP, Dec 2017)
3. Reddy D. Exploring Factors Influencing Self-efficacy in Information Security (Doctoral consortium at HICSS, Hawaii Jan 2018, and ACM SIGMIS CPR 2017)
4. Reddy D., Dietrich G. (2017). Is Self-efficacy in Information Security Better Modeled as a Predictor Variable or a Mediator Variable to Increase Compliance? (Proceedings of AMCIS, Aug 2017)

5. Reddy D., Rao V., Dietrich G. (2017). Cybersecurity Training and the End-User: Pathways to Compliance (Proceedings of CISSE-2017, Las Vegas NV. Best Student cyber paper of the year)
6. Reddy D., Dietrich G. (2016). Identifying Multiple Categories of Cybersecurity Skills that Affect User Acceptance of Protective Information Technologies. (Proceedings of AMCIS Aug 2016)
7. Reddy D., Rao V. (2016). Cybersecurity Skills: The Moderating Role in the Relationship Between Cybersecurity Awareness and Compliance. (Proceedings of AMCIS Aug 2016)

OTHER RESEARCH PAPERS

1. *Reddy, D.* Building a Taxonomy of Cybersecurity Skills Relevant to Situation Centric Cyber-attacks. (Research in progress)
2. *Reddy, D., Rao, V.* Unlocking the Mixed Results of the Effect of Self-efficacy in Information Security on Compliance: The Role of Over-confidence. (Research in progress)
3. *Reddy, D., Rao, V.* Can Personality Traits Moderate the Increase in Self-efficacy in Information Security? Implications for cybersecurity skills development. (Research in progress)
4. *Reddy D., Warren J.* Identifying False Reviews on Physician Websites: Content Analysis Method. (Research in progress)

GRANTS AND SCHOLARSHIPS

1. Best "Student cyber paper of the year" grant award to attend 21th annual CISSE (The colloquium for Information Security Education) - Las Vegas, NV. Jun 2017
2. ACM SIGMIS 2017 travel grant to attend doctoral consortium & present dissertation Jun 2017
3. Department of Cybersecurity grant for attending ACM SIGMIS CPR. Jun 2017
4. **Federal NSF** awarded travel grant to attend 20th annual CISSE – Philadelphia, PA. Jun 2016
5. AIS conference grant for ICIS registration – Dublin. Ireland. Dec 2016
6. AIS conference grant for AMCIS registration – San Diego, CA. Aug 2016
7. Department of cybersecurity conference grant for AMCIS – San Diego, CA. Aug 2016
8. AIS conference grant for ICIS registration – Fort Worth, TX. Dec 2015
9. UTSA College of Business scholarship and financial Aid for 4 years. 2013-2017

RESEARCH POSTER PRESENTATIONS

1. AMCIS - Boston, MA Aug 2017
Is Self-Efficacy in Information Security Better Modeled as a Predictor Variable or a Mediator Variable to Increase Compliance.

2. College of Sciences Conference at UTSA, San Antonio, TX Oct 2016
Cybersecurity Skills: The Moderating Role in the Relationship between Cyber Awareness and Compliance.
3. AMCIS - San Diego, CA Aug 2016
Identifying Multiple Categories of Cybersecurity Skills that Affect User Acceptance of Protective IT.
4. AMCIS - SanDiego, CA Aug 2016
Cybersecurity Skills: The Moderating Role in the Relationship between Cyber Awareness and Compliance.
5. CISSE - Philadelphia, PA Jun 2016
Cybersecurity Training and the End-User: Pathways to Compliance.
6. College of Sciences Conference at UTSA, San Antonio, TX Oct 2015
Influence of Cybersecurity Skills on User Acceptance of Protective Information Technologies.

COURSE DEVELOPMENT AND TEACHING EXPERIENCE

1. CIS 3347 Data Communications and infrastructure (TAMUCT, Summer 2018)
2. CIS 3348 Networking Architecture (TAMUCT, Summer 2018)
3. ISMG 6865 Digital Forensic Analysis I (UC Denver, Spring 2018)
4. ISMG 6870 Securing Information Assets (UC Denver, Spring 2018)
5. ISMG 6875 Protecting Information Assets (UC Denver, Spring 2018)
6. ISMG 2800 Designing for the Web (UC Denver, Spring 2018)
7. ISMG 6860 Introduction to Voice and Data Security (UC Denver, Fall 2017)
8. ISMG 6855 Protecting the Enterprise (UC Denver, Fall 2017)
9. ISMG 6060 Analysis, Modeling, and Design (UC Denver, Fall 2017)
10. IS 2043 Object Oriented Programming in JAVA. (UTSA, Spring 2017)
11. IS 2041 Intermediate Object Oriented (JAVA) programming Lab. (UTSA, Spring/Fall 2016)
12. IS 2031 Introduction to Programming Concepts Lab. (UTSA, Spring 2016)
13. IS 4053 Systems Analysis and Design. (UTSA, Fall 2015)
14. IS 3003 Fundamentals of Information Systems for Management. (UTSA, Spring 2015)

TEACHING AND RESEARCH INTERESTS

1. Cybersecurity

- Information Assurance and Security
Text: Principles of Computer Security 4th edition, Conklin, White, Cothren, Williams, and Davis, McGraw.
- Intrusion Detection and Incident Response
Text: Incident Response and Computer Forensics, Mandia, Kevin, Prorise, Chris, Matt McGraw Hill, 2014

- Introduction to Telecommunications for Business
Text: Business Data Communications and Networking (Twelfth Edition), Fitzgerald, Dennis & Durcikova.
- Operating Systems Security
Text: Jang, M. and R. Messier. 2015. Security Strategies in Linux Platforms and Applications, 2nd Edition.
- Introduction to Voice and Data Security
Text: Computer Security Handbook, 4ed, by Bosworth and Kabay
- Digital Forensic Analysis I (Intro to computer forensics)
Text: Carrier, Brian, File System Forensic Analysis, Addison-Wesley, 2005, pgs 569.
- Digital Forensic Analysis II (Advanced)
Text: Carvey, Harlan (2014) Windows Forensic Analysis, 4th Edition, Syngress
- Network Security
Text: Corporate Computer Security (Fourth Edition), 2015. Boyle, R. J. & Panko, R. R. Pearson Education
- Security Risk Analysis
Text: Hacking Exposed, 4th Edition, by McClure, Scambray, and Kurtz. McGraw Hill publisher, 2003.
- SCADA (Cyber Physical Systems)
Text: William T. Shaw. *Cybersecurity of SCADA Systems*, Published by PennWell
- Policies for Information and Infrastructure Assurance
Text: Security Program and Policies: Principles and Practices, 2nd Edition, by Sari Greene
- Malware Agent Analysis
Text: Sikorski, Michael, Honig, Andrew. Practical Malware Analysis: Dissecting Malicious Software (2012).
- Cyber Attack and Defense
The Hacker Playbook 2: Practical Guide To Penetration Testing, by Peter Kim
- Secure software development, Security Testing and Web Application Security

2. Data Analytics, Databases, Programming, IT, Cloud Computing

- Data Analytics/Advanced Statistical Learning using R.
Text: An Introduction to Statistical Learning with Applications in R.” by James, Witten, Hastie, Tibshirani.
- Introduction to Data Mining
Text: Data Mining Techniques for Customer Relationship Management, by Linoff, Berry, 3rd ed, Wiley.
- Multivariate/Statistical Methods for Business Analysis
Text: Hair, Black, Babin, Anderson (2010). Multivariate Data Analysis. Upper Saddle River: Prentice Hall.
- Introduction to Business Analytics
Text: Applied Regression Modeling: A Business Approach by Iain Pardoe (2006) from Wiley & Sons.
- Application Development
Text: Python for Data Analysis, O’Reilly
- Mobile Application Development
- Database Management for Information Systems
Text: Essentials of Database Management, Jeffrey A. Hoffer, Heikki Topi, Ramesh Venkataraman
- Advanced Database Concepts
Text: Database Systems: Design, Implementation, and Management by Coronel, Morris, Cengage; 11e

- Data Foundations
Text: Data Mining: The Textbook by Charu C. Aggarwal
- Information Technology (Emphasis on infrastructure)
- Cloud (distributed) infrastructure computing and management

PROFESSIONAL SERVICE

Manuscript Reviewer for Various Conferences

- MDP-Based Algorithms and Explanation-Based Trust for Cybersecurity Detection ([ICIS SIGSEC 2017](#)).
- Managing security in organizations: Adoption of information security solutions ([ACM SIGMIS CPR 2017](#)).
- The Impact of Procedural Security Countermeasures on Employee Security Behavior: A Qualitative Study ([ICIS SIGSEC 2016](#)).
- Phishing Training: A Preliminary Look at the Effects of Different Types of Training blinded ([ICIS SIGSEC 2017](#)).
- Priming Security Behavior: A Study Based on Self-Concept Maintenance Theory ([AMCIS 2016](#)).

Doctoral Student Volunteer at Various Conferences

- Americas Conference on Information Systems (AMCIS), Boston, MA Aug 2017
- International Conference on Information Systems (ICIS), Dublin, Ireland Dec 2016
- Americas Conference on Information Systems (AMCIS), San Diego, CA Aug 2016
- International Conference on Information Systems (ICIS), Fort Worth, TX Dec 2015

Other

- Presentation on cybersecurity to Cherry Creek ISD K-12 students (Spring 2018)

CONFERENCES ATTENDED

- HICSS, Hawaii as presenter in doctoral consortium. Jan 2018
- ICIS, Seoul, South Korea as presenter of two research papers. Dec 2017
- AMCIS, Boston, MA as a presenter and doctoral student volunteer. Aug 2017
- CISSE, Las Vegas, NV as a best student cyber paper of the year presenter. Jun 2017
- ICIS, Dublin, as doctoral student volunteer. Dec 2016
- Alamo Ace conference, San Antonio, TX as attendee. Dec 2016
- College of sciences conference at UTSA, San Antonio, TX as poster presenter. Oct 2016
- AMCIS, San Diego, CA as a presenter and doctoral student volunteer. Aug 2016

- CISSE, Philadelphia, PA as a research poster presenter. Jun 2016
- ICIS, Fort Worth, TX as a doctoral student volunteer. Dec 2015
- Alamo Ace conference, San Antonio, TX as attendee. Nov 2015
- College of sciences conference at UTSA, San Antonio, TX as poster presenter. Oct 2015
- Alamo Ace conference, San Antonio, TX as attendee. Nov 2014

TECHNICAL SKILLS SUMMARY

Data Storage Strategies:

- EMC Symmetrix DMX, EMC Clariion, IBM Tivoli Storage Manager (IBM TSM), servers, switches, SAN, NAS, DAS, iSCSI, Fibre Channel, Zoning, Object storage (EMC Elastic cloud storage), High speed interconnects, Data migration, SMB, RAID, Thin provisioning, storage hierarchies, VM.

File Systems:

- Distributed file systems such as Network file systems (NFS), Hadoop distributed file system (HDFS), and Lustre vs Panasas Storage, Parallel file systems (GPFS, PVFS), Clustered file system (CFS), Global file systems 2 (GFS2), Common Internet File System (CIFS), Disk files systems such as Journaled File System (JFS), Veritas file system (VxFS), FAT, NTFS, and ext, Database file systems such as IBM DB2.

Storage Tools:

- HP Command View EVA, IBM Netcool, Samba, Top, NetStat, VmStat, iostat, pmap, nmon, Vmware, ESX(i),

Security Strategies:

- Software Security, Mobile Application Security, Cloud Application/data center Security, (Openstack, AzureStack), Virtualization Security, Reverse Engineering, Malware Analysis, Security of IoT, Cyber Physical Systems (SCADA), Firewall security, UAV Security, Operating systems Security, Network security, Embedded hardware design for cybersecurity, Promoting cybersecurity research, education and outreach activities, Security risk analysis/ management, Human factors of cybersecurity, Computer and mobile forensics, Penetration testing, Information assurance, Ethical hacking, IS audit, Policies, Business Continuity and Disaster Recovery, Encryption, Steganography, Cryptography.

Security Tools:

- NMap, Logwatch, Swatch, Darkstat, ZFS (Data integrity), FreeNAS (with encryption), Wireshark, Snort (WinSnort), ACID, tcpdump, Windump, ntop, OpenSSH/puTTY, traceroute, SysInternals, MD5, SHA, Cain, HFNetCheck, DumpSec, OpenVAS(Nessus), MBSA, EMET, Kerberos, PGP, VOMIT, Whisker, Share sniffer, SuperScan, SnifferPro, NetXRay, FTK.

Software Testing Strategies:

- Acceptance, Functional, Sanity, C&I, Performance, GUI, Security, Penetration, Regression. Defect validation and verification. Maintaining build infrastructure, configuration management and patch release. SDLC, STLC, quality standards, RCA.

Software Testing Tools:

- Functional (QTP, Selenium), Non-Functional (LoadRunner, JMETER), SVN, Quality Center, starwind, cygwin, bugzilla, sharepoint, Rational Clear Quest, Humming bird, WinSCP, Vnc, WST.

Programming: Java, C, C++, Python (Anaconda), Perl, Dr.Java, Eclipse, Spyder IDE.

Databases: SQL Server, Oracle, MySQL, Visio, SQL, Access, SQL Developer, SQL Data Modeler, NoSQL.

Operating Systems: Multiple versions of Windows, Linux, Solaris, HP-UX, AIX.

Statistical Tools: SPSS 3.0, AMOS, SmartPLS 3, HLM, Eventus, R, SAS Miner, XLMiner.

Cloud: Amazon web services (AWS), Google cloud, Azure, Openstack.

Scripting Tools: python, perl, php, bash, ksh, grep, sed, awk.

System Tools: cron, snmp, nagios, syslog, expect

Web Application: HTTP, HTTPS (server security), HTML, DHTML, XHTML, XML, Javascript, Servlets, PHP, FTP, GridFTP (with Grid Security Infrastructure), Apache server.

Online Learning: BlackBoard Learn, Canvas, Zoom.

MANAGEMENT SKILLS SUMMARY

- Experienced in managing result oriented test teams and project ownership to ensure business continuity.
- Skilled in scoping, planning, risk analysis, estimating, scheduling, tracking, reporting the test activities.
- People management and leadership skills like motivating, organizing, monitoring, controlling, negotiating, career planning, rewarding, appraisals, hiring and team building.
- Capable of optimizing test cycles, cost and delivery schedule with right strategy, approach, test techniques, methodologies, defect tracking, reviewing test artifacts and technical guidance.
- Eliminating performance bottlenecks by analyzing quality metrics, implementing relevant SQA processes.
- Good at promoting flexible attitude, positive atmosphere in teamwork by proactively identifying and resolving issues; Handle pressure on conflict resolution; Cross team co-ordination at organization level; Deliver outstanding customer service.

CERTIFICATIONS

- Information Storage and Management from EMC.
- EMC Implementation Engineer in Information Backup and Recover.
- Business English Communication from Cambridge University.

SYNERGISTIC ACTIVITIES

- HP employee of the month award for going extra mile in fixing critical issues. Feb 2012
- HP Star performer award. Apr 2011
- HP eAward (E001011206) for outstanding efforts and commitment to work. Dec 2010
- EMC Go-To-Market-Team award for NetWorker Fast Start project. Jan 2009
- EMC Platinum Star Award for the NetWorker Fast Start project. Jul 2008
- Reliance Top Performer Awards. Jul 2003
- ITI award for scoring highest marks in Kannada in SSLC. Nov 1995
- Vijaya High School award for highest marks in language subject in SSLC. Jun 1995
- Sports and Cultural events awards in Vijaya High School. 1994-95
- Top 10% scorer in the XXV Interstate talent tests in Mathematics. Jan 1994
- Certificate award (JFA1635921) in First Aid Junior level by St. John's. Aug 1991

OTHER ACTIVITIES

- Conference attendee - "Microsoft Academic Day" at PESIT, Bangalore. Mar 2006
- Conference attendee - "Techvista 2006" organized by Microsoft, Bangalore. Jan 2006
- Conference attendee - Techfest "Osmosis" organized MindTree, Bangalore. Dec 2005
- Industrial Training in Central Power Research Institute (CPRI), Bangalore. Mar-Apr 2000
- Industrial Training in New Government Electric Factory (NGEF), Bangalore. Aug-Sep 1999

PROFESSIONAL ASSOCIATIONS

- Association of Information Systems (AIS). Member since 2015.

PROFESSIONAL REFERENCES

1. **Dr. Glenn Dietrich**, Ph.D., CISSP. (Professor at University of Texas)
2. **Dr. Srinivasan Rao**, Ph.D. (Professor at University of Texas)
3. **Dr. John Warren**, Ph.D. (Associate Professor at University of Texas)
4. **Dr. Jiban Khuntia**, Ph.D. (Assistant Professor at University of Colorado)