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**A. Primary Skills:**

Visual Studio Visual Basic 6.0, C, C++, C#, VB .NET, Java, Game Development- XNA, Unity-3D, Relational Database Design and Implementation - SQL, Oracle, MS SQL Server, MS Access, HTML, XML, VBScript, JavaScript, MATLAB, MS Office Tools, Information Assurance, Computer Security and Computer Forensics Tools.

**B. Professional Preparation:**

Alabama A&M University, AL., USA, Computer Science, MS, 1998  
Alabama A&M University, AL., USA, Food Science, MS, 1997  
Nagarjuna University, India, Ecophysiology, Postdoctoral, 1989-1993  
Nagarjuna University, India, Ecophysiology, Senior Research Fellow, 1986-1989  
Nagarjuna University, India, Zoology, PhD, 1986  
Nagarjuna University, India, Zoology (Aquaculture), MS, 1981

**C. Appointments:**

2004 - present – Associate Professor, Computer Science, Alabama A&M University, Normal, AL  
2011 – 2012 – Coordinator, Computer Science, Alabama A&M University, Normal, AL  
2011 – 2011 – interim Chair, Computer Science, Alabama A&M University, Normal, AL  
2007 - 2009 – interim Chair, Computer Science, Alabama A&M University, Normal, AL  
1998 - 2004 – Assistant Professor, Computer Science, Alabama A&M University, Normal, AL  
1998 – 1998 – Software Engineer, Integrated Informatics Inc., Atlanta, GA  
1997 - 1998 – Graduate Assistant, Computer Science, Alabama A&M University, Normal, AL  
1994 - 1996 – Graduate Assistant, Computer Science, Alabama A&M University, Normal, AL  
1989 - 1989 – Visiting Scientist, The University, Southampton, England  
1989 - 1993 – Research Associate (Postdoctoral), Nagarjuna University, Nagarjunanagar, India  
1986 - 1989 – Senior Research Fellow (CSIR), Nagarjuna University, Nagarjunanagar, India  
1984 - 1985 – Senior Research Fellow (ICAR), Nagarjuna University, Nagarjunanagar, India  
1982 - 1984 – Junior Research Fellow (ICAR), Nagarjuna University, Nagarjunanagar, India

**D. Research Area(s) of Interest:**

Artificial Neural Networks, Artificial Immune Systems, Genetic Algorithms, Bioinformatics, Computer Forensics and Computer Security

**E. Awards:**

- Outstanding Performance Recognition form Lockheed Martin, Inc., FL, 2010
- Outstanding Service Award for 2003 from IEEE (Institute Of Electrical and Electronics Engineers)
- Teacher of the Year Award - from the Dept. of Computer Science Club, 2002
- Award of Support to the Department of Computer Science Club, 2002

**F. Selected Publications/Presentations:**

- Modular Analysis of Software Architecture Model. Proceedings of International Conference on Software Engineering Research and Practice, Las Vegas, NV, USA, July 13-16, pages 17-23, 2009
- Consortium for Bioinformatics Instruction (USDA/CSREES grant): A Mini Case of ALN

Collaboration. A Workshop on Advancing HBCU Participation in Asynchronous Learning Network Development, AAMU, Normal, AL, March 17-19, 2006

- Use of Artificial Color filtering to improve iris recognition and searching. Pattern Recognition Letters 26:2244-2251, 2005.
- Classifying and Predicting Soil Moisture and Temperature using an Artificial Neural Network. World Automation Congress, Maui, HI June 11-15, 2000.
- Probabilistic Neural Networks for Multispectral Image Classification. World Automation Congress, Maui, HI June 11-15, 2000.
- Artificial Immune Systems in Soil Classification, CATA 2000, New Orleans, LA, March 2000.
- An Artificial Neural Network in predicting soil moistures using Levenberg-Marquardt's algorithm, 1999. Proceedings of the IEEE SouthEastCON Conference, March 25-28, Lexington, KY.
- The Radial Basis Function Neural Network and Genetic K-means for Multispectral Image Classification. Proceedings of the International Society for Computer and their Applications (ISCA) 14th International Conference, Cancun, Mexico, April 7-9, 1999.
- Combined Genetic K-means and Radial Basis Function Neural Network Technique for Classifying and Predicting Soil Moisture. Proceedings of the EOS/SPIE Symposium on Remote Sensing, University of Florence, Italy, 20-24 Sept., 1999.

#### **G. Synergistic Activities:**

- Developed and teaching undergrad and grad courses in Bioinformatics
- Developed courses in Web Programming, Computer Security, Forensic Computing and Game Programming
- Taught bioinformatics course both synchronously and asynchronously to three universities viz. Alabama A&M University, Tennessee State University and Tuskegee University
- Reviewer of Java Textbook "Patterns in Computer Science Using Java" by Ed Epp, McGraw-Hill, 1999
- Reviewer of Textbook "Excel 2002" by Karen Jolly, Scott/Jones Publishing, 2002
- Reviewer of Textbook "Essentials Microsoft Office XP" by Fox et al., Prentice Hall, 2002
- Reviewer of research papers for ACM symposium on Applied Computing, 1999
- Reviewer of research papers for AutoSoft Journal, an international journal on Intelligent Automation and Soft computing 2002
- Editor, LiveWire, the IEEE Huntsville Section Newsletter, Dec.1999 - 2006
- Member, IEEE Huntsville Section AAMU Student Affairs Committee, 2003-2006
- Conducted a mini workshop on Bioinformatics, AAMU, April 17, 2004

#### **H. Research Advising (Thesis/Dissertation):**

- Land use change in urbanizing water sheds of North Alabama 1980-2010: Drivers, Impact and Prediction., 2011, (Ph.D. Dissertation committee member)
- Analysis of Environmental Mycoallergens using Bioinformatic tools, 2010, (MS Thesis Committee Member)
- Configuration Management for the Improvement of Software Problem Reporting and Versioning Control., 2007, (MS Thesis Advisor)
- An analysis of the current academic advising process and a proposed integrated, comprehensive, web-based interface to a matriculation system, 2007, (MS Thesis Advisor)
- A different Approach to Align Sequences: Analysis and Modification of a Local Sequence Alignment Algorithm, 2005, (MS Thesis Advisor)
- Digitization of Graduation Admission Process using Object & Web Technology, 2004, (MS

Thesis Committee Member)

- User-Retrainable and User-Reconfigurable Software Architecture for Eukaryotic Gene Prediction, 2003 (MS Thesis Committee Member)

### **I. Service**

- Member, Distance Education Committee (at the University Level), 2007-Present
- Member, CETL (Center of Excellence in Teaching and Learning), 2009-Present
- Member, Distance Education Committee (at the School Level), 2009-2012
- Member, Academic Standards & Curriculum Committee 2004-2009
- Member, Project Proposal Review Panel, NSF FIBR Program 2003
- Chair, Dept. Exit Exam Committee 2005-2009
- Department Web Administrator 2006
- Alternate Faculty Senator, 2002-2009
- Advisor, Department Computer Science Club 2002-2006
- Member, Faculty Search Committee, HSCaRS, 2004
- Member, Promotion and Tenure Committee 2006
- Member, NCAA Review Team, 2005
- Member, Faculty/Staff Conference Committee, 2003-2004
- Member, SACS Criteria Review Task Force, 2000
- Facilitator, Operation Jump-Start 2000-2010
- Active Participant, Youth Motivation Task Force since 2000
- Mentor, Changing Lanes, ORAS, 2004-2010
- Successfully supervised and prepared ABET Accreditation reports and visits

### **J. Workshop Organization:**

Conducted a mini workshop on Bioinformatics, AAMU, April 17, 2004

### **K. Conferences/Seminars/Workshops Attended:**

A Decade of Denial: Why DDoS Still Exists and What To Do About It	10:00-11:00 am; December 12 2012 Presenters: Jeff Wilson, Infonetics, Dan Holden & Rakesh Shah, Arbor Networks
Mobile Apps under Attack – How to Secure and Protect Your Apps	9:00-10:00 am; December 12 2012 Presenters: James Lynn, HP Fortify & Vince Arneja, Arxan Technologies
Analyzing the Most Dangerous Threats...Those That Succeed	Presented by: Jay Manni, Director of Engineering, FireEye, Sep 06 2012 1:00 pm
The Rising Costs of Targeted Attacks on Financial Institutions	Webinar, Presented by: Jerry Archer, SVP/CSO, Sallie Mae; Phil Lin, Ed Dembowski, FireEye, Aug 23 2012 1:00 pm
The Changing Face of Security Ethics, ISSA Web Conference	Web Conference, November 30, 2011, 11:00 am -1:00 pm CST, Organizer and Presenter: Anna Vembu
Rochester Security Summit - Security Sanity 2011	Rochester, NY, October 4 and 5, 2011
North Alabama Cyber Security Summit	Huntsville, AL June 9, 2011

I/ITSEC (Interservice/Industry Training, Simulation and Education Conference)	Orlando, FL Nov 2010
4th Annual Rocky Mountain Bioinformatics Conference	Aspen, CO Nov. 30 - Dec. 3, 2006
2006 DoD Public Key Enabling Technical Forum	Atlanta, GA Oct. 23-26, 2006
Asynchronous Learning Network Development (ALN)	Normal, AL, March 16-19 2006
Real-Time & Embedded Computing Conference	Huntsville, AL, March 2, 2006
Workshop to Enhance Proposal Development Skills and Promote Research Collaborations	NSF, Arlington, VA, Feb 8-10 2006
Data Mining III-A hands-on Application Workshop	Orlando, FL, Feb 3, 2006
Modeling Physical Systems with Simulink for Aerospace and Defense Applications	Huntsville, Nov 29, 2005
Data Analysis and Development with MATLAB for Aerospace and Defense	Huntsville, Oct 25 2005
36th Annual Business/Industry Cluster Conference	AAAMU, Oct 4-5, 2005
Mobile GIS seminar	Nashville, TN, July 22, 2003
Innovative Ideas and Alternatives to Imaging Telescopes Workshop	AAMU, Sept 27-28, 2001
World Automation Congress (WAC 2000)	Maui, HI, June 11-15, 2000
CATA 2000	New Orleans, LA, March 2000
IEEE SouthEastCON Conference	Lexington, KY, Mar,25-28,'99
Workshop on Data Compression Processing Techniques for Missile Guidance Data Links	Redstone Arsenal, AL, Dec 2&3 1998
Institute of Food Technologists Annual Meeting	Anaheim, CA, June, 1995

#### **L. Funded Proposal**

- “Development of a CRM System”, Lockheed Martin, \$169, 706.78, funded Fall 2010
- “Data Migration of Assets”, Lockheed Martin, \$246,400, funded Fall 2008 (Fa08–10)
- “Consortium for Bioinformatics Instruction”, USDA, \$299,843, funded Fall 2005,(Fa05-Sp08)