

Jay R. Gangasani
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College of Engineering, Technology, and Physical Sciences
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POSITION: Assistant Professor

CITIZENSHIP: USA

I. EDUCATION

<i>University</i>	<i>Degree</i>	<i>Graduation</i>	<i>Specialization</i>
P.R. University	B.S	June, 1980	Agriculture Sciences
Jackson State University	M.S	May, 1988	Computer Science
Alabama A&M University	PhD	Dec, 2016	NRES

II PROFESSIONAL BACKGROUND

08/15/01 – Present: Assistant Professor

II a. TEACHING: University Courses taught during the last 17 years at AAMU

Course#	Course Title
CMP 490	High performance Computing (Fundamentals of Parallel Processing)
CMP 488L	Introduction to Database Management Systems
CMP 410	Seminar
CMP 384	Operating Systems
CMP 380	Computer Organization
CMP 330	Computers in Society
CMP 304	Introduction to Web Programming
CMP 104	Introduction to Computers & Ethics
CMP 109	Introduction to Programming II
CMP 102	Introduction to Programming I
CMP 101	Fundamentals of Computers and Information Systems

II b. CONFERENCE PAPERS:

“Artificial Color Estimation of Temperatures” by Jayachander R. Gangasani, Jian Fu, and H. John Caulfield. Paper ID #: CGV2535, the 16th International Conference on Computer Graphics and Virtual Reality (CGVR'12: July 16-19, 2012, USA) has been accepted for publication in the conference proceedings/books and presentation.

II c. DEPARTMENTAL SERVICES / OTHER DUTIES PERFORMED

- Member, University STEM COMMITTEE, fall 2014 - Present
- Member, University Information Technology Committee, fall 2013 – Present
- Member, University Student Conduct Committee, fall 2014 – Present
- Member of Faculty Senate (2012- PRESENT)
- Member, University Faculty Handbook Committee, fall 2010 – spring 2013
- Chair, Dept. Exit Exam Committee, 2009- Present
- Chair, Dept. Major Field Test Committee, 2009- Present
- WEB Administrator, CS DEPT, Fall 2013 - Present
- NSF: Partners for Innovation in Information Technology from 2010 - Present, Coordinator.
- Actively participated in ABET committees 4 times, included the October 2012 visit.
- Computing in the Modern World Instructor, Summer Camps 2010 – 2012, Partners for Innovation in Information Technology (PIIT), Alabama A&M University.
- Member of Faculty Senate (2012- PRESENT)
- Chair, Software Committee, Dept. of Computer Science, fall 2010 – Present
- Advisor, Computer Science Club, 2006 – Present
- Member, Software Committee, fall 2009 – fall 2010
- Advisor / Mentor, to Mr. DeAnnqntter Bryant, 1st prize winner of Senior Project in STEM DAY 2009 POSTER COMPETITION.
- Chair, Department of Computer Science Curriculum Committee, 2005-2009
- Chair, Textbook Committee, 2002-2006
- Students Mentor, Alabama A&M University, January 2002 – Present
- Student Advising, From August 15, 2001 – Present
- Advisor, Computer Science Club, 2004 - 2008
- Computer Labs Coordinator, 2006 - Present
- Updated the Computer Science Course curriculum for year 2005 - 2007
- Updated Undergrad Computer Science catalog for year 2005-2007

II d. SERVICE / OUTREACH ACTIVITIES

- Currently serving as Major Advisor to approximately 30 undergraduate students.
- Currently mentoring 8 students in Changing Lanes program.
- Active Participant, Youth Motivation Task Force since 2001 to Present.
- Advice and Mentor high School, undergraduate and graduate students.
- Mentored and trained high school students of Outward Bound program.
- Participated in Changing Lanes program, ORAS, AAMU.
- In 2009-2010 academic year, as Program Manager, organized the four CS/IT Professional seminars in Huntsville/Madison high schools. Around 80 high school students attended the seminars. The invited speakers are from NASA, IBM, and Alabama Super Computer Center.

- In April 2010, contributed my services to the 87th Alabama Academy of Science at Alabama A&M University.
- In June 2010, as Instructor, I taught a course, “Computing in Modern World” at a one-week summer camp, About 20 students attended the camp and provided positive feedback on my teaching .
- May 2009 to July 2009: Designed, developed, implemented and maintaining a web based database, **WINFRED THOMAS MICROMETEOROLOGICAL FLUX MEASUREMENTS**, for Natural Resources and Environmental Sciences department, ALABAMA A&M UNIVERSITY, used SQL server.

Committees:

- Chair, Major Field Test & Exit Exam Committee, fall 2010 - Present
- Chair, Software Committee, Dept. of Computer Science, fall 2010 – Present
- Member, University Faculty Hand book Committee, fall 2010 - Present
- Advisor, Computer Science Club, 2006 – Present
- Member, Software Committee, fall 2009 – fall 2010
- Chair, Department of Computer Science Curriculum Committee, 2005-2009
- Chair, Textbook Committee, 2002-Present

II e. MEMBERSHIP

- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronic Engineers (IEEE)
- Association for Information Systems (AIS)
- Alabama Education Association (AEA)
- National Education Association (NEA)
- Parent Teacher Association (PTA)

III. GRADUATE STUDENT: – Currently pursuing PhD, majoring in Natural Resources and Environmental Sciences Department. Completed the PhD course work, passed written and oral comprehensive exam and writing doctoral dissertation research project.

Doctoral dissertation research project: Modeling of the daily Soil Moisture with artificial neural network using Alabama Mesonet.

Research Interests:

- Computational Modeling and Simulations
- Neural Networks and Fuzzy Logic
- Bioinformatics
- Cyber Security

IV. VENDOR ADMINISTERED COURSE WORK

Networking: Windows Server, Network Administration, LINUX System Administration, UNIX Solaris Sys Admin, Novell 3.12 & 4.0 Network Administration

Oracle: SQL and PL/SQ, Oracle 7.3, 8i, 10g, 11g Database Administration, Oracle 8i Backup & Recovery, Designer 2000

Operating systems: Windows 7.0, Windows 8.0, Windows XP, Windows NT, VMS, MVS, OS/2, DOS, Macintosh

Novell: Novell 3.12 & 4.0 Network Administration

Power Builder: Power Builder 5.0 & 6.0

Micro Soft: Windows XP Administration & Server 2003 Administration,
Visual Basic 3.0 & 5.0, Visual C++, Microsoft.NET, SQL server & Access.

V. CONFERENCES AND WORKSHOPS:

- HUNTUG VS.NET group on Monday, Oct 13th, 2014, beginning at 6PM at the Intergraph Corporation Building 15b Auditorium. Wally McClure presented "Sharing code between mobile platforms using Xamarin."

- HUNTUG WORKSHOP "Windows Phone 8 User Group", January 07, 2014.

- HUNTUG WORKSHOP "Alabama Code Camp 9" Troy, Alabama on February 4, 2013

- The Customer Service Workshop held on Thursday, March 3, at Marketing, Communication & Advancement, and Alabama A&M University.

- Attended Huntsville VS.Net user group on Tuesday, May 8th, 2013, beginning at 6PM at the Intergraph Corporation Building 15b Auditorium. INETA speaker, Gaines Kergosien, Presented "Testing in Visual Studio with Microsoft Fakes (aka. Moles)".

- Attended 51th ACM Southeast Conference in February, 2013

- Attended the Faculty: Establishing Course Guidelines workshop on September 12, 2012

- Attended, Expectations that Improve Student Success and Satisfaction (Webinar), on October 16, 2012

- Attended the Faculty: 23 Practical Strategies to Help New Faculty Thrive (DVD), Location : LRC room 309, October 18, 2012

- Attended the CETL Summer Workshop on **July 1: Reading Across the Curriculum** by Dr. Angela Williams, Assistant Professor, Department of Elementary & ECH Education, AAMU.

- In June 2010, 2011 and 2012 as Instructor, I taught a course, "Computing in Modern World" at a one-week summer camp, conducted by Partners for Innovation in Information Technology (PIIT), Alabama A&M University. About 20 students in each workshop attended the camp and provided positive feedback on my teaching.

The goal of this course was to provide all students with an introduction to the principles of computer science and its place in the modern world. This course should also help students to use computers effectively in their lives, thus providing a foundation for successfully integrating their own interests and careers with the resources of a technological society. In this course, high school students acquired a fundamental understanding of the operation of computers and computer networks and created useful programs implementing simple algorithms. By developing Web pages that included images, sound, and text, they acquired a working understanding of the Internet, common formats for data transmission, and some insights into the design of the human-computer interface. Exposure to career possibilities and discussion of ethical issues relating to computers were some important threads in this course.

- In April 2010, contributed my services to the 87th Alabama Academy of Science at Alabama A&M University. Achievement letter provided in scholarly activities
- Attended the NSF workshop: NSF workshop HBCU's, January 2010, Arlington, Va.
- In 2009-2010 academic year, as Program Manager, organized the four CS/IT Professional seminars in Huntsville/Madison high schools. Around 80 high school students attended the seminars. The invited speakers are from NASA, IBM, and Alabama Super Computer Center.
- Attended **Water Leadership Conference**, Camp McDowell, Nauvoo, AL, March 20 - to 22, 2009
- Attended **LINUX** Systems Administration, University of Alabama, January 16th, 2007 to February 06, 2007.
- Attended **WINDOWS 2003 Server and XP** Systems Administration, Hands on Technology Transfer Inc, Orlando, Florida, **March 16th** to March 31st, 2006

VII. EMPLOYMENT HISTORY

Assistant Professor (08/01 to Present) Alabama A&M University

College teaching of High Performance Computing (CMP490), C++ (CMP 102 & CMP 109), Oracle , Access (CMP 488L) Software Packages (CMP 101), Introduction to Computers & Ethics (CMP 104), Computers in Society (CMP 330) , Introduction to Web Programming (CMP 304), at all levels of undergraduate Computer Science courses including Database Management Systems (CMP 488L), Operating Systems (CMP 384) and **Computer Organization** (CMP380). Also responsible for advising students, chair of curriculum committee. As computer Labs coordinator, the responsibilities includes setting up servers in Windows 2003, Oracle and LINUX systems, systems administration, networking computer labs, setup faculty computers, managing graduate assistants for computer labs, ordering computer inventory, software, hardware including desktops and laptops and overall maintenance of all Computer Science Departments Computers.

Principal Consultant (04/00 to 06/01) Oracle Corporation

Oracle Corporation: Worked on Client Sites at *Win Star*, *Bell South* and *Isuppli Corporation* doing Oracle Design / Development / DBA Functions in WinNT and Solaris environments, responsibilities included maintenance of Oracle Databases, installations, replication, database & user security, storage management, schema design, creation, data uploading, backup, recovery, user accounts maintenance and configuring network printers. Environment is Oracle 7.3, 8.0, 8.1.6 and & WinNT, Solaris 2.x

Database Analyst (08/97 to 03/00) DynCorp Technologies Inc, Client site: Federal Aviation Administration (FAA):

As Developer / Database Administrator I was involved in Year 2000 applications development, converted 16 existing applications in clipper/FoxPro to Power builder / Oracle environment, their development, testing, enhancements, implementation, maintenance as well as Oracle Database Administration Functions. This included creating users, creating backend (tables, table spaces etc), loading data, creating roles, creating indexes, public synonyms, setting up a security environment

which included giving rights to users based on their requirements (Read only, edit rights etc.), account management, table maintenance. Installing Oracle database software, Power Builder, upgrades, perform creation and installation of new instances / databases. Keeping the applications on Win frame server to be accessible by all users in the regional office and in Smog, installing win frame clients on users' machine and its configuration and Customer Support. Extensively used Enterprise Manager for DBA functions. The environment is Power Builder 5.4/Oracle 7.3 / 8.0, WinNT, Sun Solaris 2.6x. Secondary duties included Production Support for the converted applications, demonstration of applications for the users for their use and feedback for enhancing the applications. Web page creation, editing and installation.

Software Engineer (07/ 95 – 08/97)

Crystal Computer Corporation

Responsibilities include porting, modifying and maintenance of various device drivers for broadcasting industry from **DOS** environment to **QNX** environments using **C/C++** languages. Monitor and control systems (HPAs, Routers, Antennas etc.) and integration for broadcasting industry (Teleports & TV stations), setups, interactive screen development, software installation, hardware installation and support on Site as well as through phone in **Dos/Qnx** environments. Extensively used **Oracle 7.3 and Developer 2000** for creating customer database. Extensively used IDEAS, Direct-X, and UniGraphics....etc.

Computer Science Instructor

Lincoln University, Lincoln, PA (08/91 to 06/95)

Taught C, BASIC, FORTRAN 77, PASCAL, Database Base Management Systems, Data Structures, Systems Analysis, Operating systems and Computer Organization. Also responsible for advising students, Coordinating students *mainframe* and *P.C* labs and Chair of Student Extracurricular Committee and member of Information Technology Committee.

Computer Science Instructor

United College, NY (08/88 to 05/91)

Taught COBOL, PASCAL, Database, Lotus 1-2-3, FORTRAN, Computers Society and also responsible for advising students, managing students *Mac* computer center and member of Curriculum Committee.

VIII.SCIENTIFIC, PROFESSIONAL AND HONOR SOCIETIES MEMBERSHIP

ACM - Association for Computing Machinery
IEE - Institute of Electrical and Electronics Engineers
HUNTUG – Huntsville New technology Users Group
AEA – Alabama Education Association
NEA – National Education Association
PTA – Parents Teachers Association

IX. HONORS AND AWARDS

- Award of Appreciation from **Chair, Alabama Academy of Science (AAS) Local Arrangement Committee**, Dr.Yong Wang and **Co-Chair, AAS Local Arrangement Committee**, Dr.Phil Bording for contributing my services to the Local Arrangements Committee of Alabama Academy of Science for the 87th Annual Conference of the Alabama Academy of Sciences held at Alabama A&M University in April, 2010.

- Award of Appreciation from **Chair, Computer Science Department**, Alabama A&M University for Installing Computer Network Servers, Hardware and Software in Computer Science Departmental Labs and Faculty Computers, 2006 – 2007.
- Award of Appreciation from **FAA , SE Regional Office** for Completing Y2K Projects ahead of schedule, March 2000.
- Award of Appreciation from **CRYSTAL COMPUTER CORPORATION** for outstanding customer service, April 1997.
- Award of Appreciation from **Department of Computer Science**, Lincoln University for Designing and Installing Computer Hardware and Software in New Lab, May 1992
- Commendation Plaque by **Business & Information Systems** Department, United Career Center for Outstanding Service to Student Community, April 1990

X. CONSULTING EXPERIENCE

The following are some of my recent short term consulting experiences:

Consultant (05/10/14 – 07/25/14)

Intergraph Inc:

Provided portal-based integration solutions with focus on Web content management, enterprise content management, imaging, document management and digital media .

Consultant (04/15/13 – 08/10/13)

Intergraph Inc:

Designed and developed a virtual cluster monitoring (VCM) platform for an integrated suite of tools for monitoring and managing the geographically distributed infrastructure in the Graphics division. This out of the box web-based tool suite provided an easy way to manage complex applications. It also provides an alternative and intuitive way to accomplish a very complex task of network, applications and database monitoring and management.

Consultant (05/15/11 – 08/10/11)

UniGraphics Inc:

Performed Capacity Planning & Performance analysis functions. Some of the major responsibilities are to Collect, store and view historical performance data for the various systems and application resources of the e-business enterprise division. Created tabular and graphic reports, detailing the performance of monitored items over time and spotted trends and pinpointed troubled spots.

Principal Consultant (04/00 to 06/01)

Oracle Corporation:

Worked on Client Sites at Win Star, Bell South and Isuppli Corporation doing Oracle Design / Development / DBA Functions in WinNT and Solaris environments, responsibilities included maintenance of Oracle Databases, installations, replication, database & user security, storage management, schema design, creation, data uploading, backup, recovery, user accounts maintenance and configuring network printers. Environment is Oracle 7.3, 8.0, 8.1.6 and & WinNT, Solaris 2.x

XI. SERVICE TO THE PUBLIC:

- Voluntary work at Highlands Elementary, 2009 – 2010 academic years.
- Voluntary work at HCCNA, 1995 – Present.
- Supporter of Downtown Rescue, Huntsville, AL – 2006 - Present
- Supporter, Children’s International Organization, 1996 – Present, Adopted 2 children, one child from Philippines and another from Ecuador, correspondence and evidence is enclosed In the Service to the Public section of the Promotion Folder.
- Supporter of OPERATION SMILE, 2006 – Present/
- Supporter for American Diabetes Association, 2006 – present.
- Supporter for MADD – Mothers Against Drinking and Driving, 2007 – Present.
- Supporter for a LEG TO STAND ON, 2006 – Present.
- Donated and raised funds for HAITI EARTH QUAKE VICTIMS, July 2010.
- Supporter for Haiti Earth quake Victims, 2010 – Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Member, National Parents Teachers Association, 2005- Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Special Olympics Committee, 2003 – Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Sierra Club, 2003 – Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, National Arbor Day Foundation, 2001-Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Project Hope, 2003- Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Food for Hungry Organization, 2001-Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Feed the Children Organization, 2002-Present, correspondence and evidence is enclosed in the Service to the Public section of the Promotion Folder.
- Supporter, Helped raise Funds for World Vision Organization, 1994 – Present
- Member, Huntsville Indian American Association, 2001 – Present
- Helped raise Funds for Katrina Hurricane Victims, 2006
- Helped raise Funds for Tsunami Victims, 2005
- Helped raise Funds for Earthquake Victims, 1999 - 2000
- Vice-President, Indian American Cultural Association(I.A.C.A), Atlanta, GA, 1995 – 1999
- Vice-President, TAMA, Atlanta, GA, 1993-1995
- Secretary, International Students Union, Jackson, MS, August 1986 - July 1987