

Frank J. Mathew

155 Twin Gates Drive,
Oxford MS 38655 USA.
Email: fmathew@olemiss.edu
Phone: 662 801 0478

Summary

- Education includes a bachelor's in Computer Engineering, a Master's in Computer Information Science and presently working on completing a doctorate in Business Focused on Operations Management and MIS.
- About **4 years of full-time experience** and **4 years of part-time (50%) experience** in the Information Technology industry.
- **Teaching experience** in the Business School, Engineering School and in an Industry setting.
- Worked with several technologies across different platforms in areas such as client-server application development, algorithms for network design, operating systems and programming on handheld devices.
- Presently employed as the Associate Director of Enterprise Applications in the Office of Information Technology and Visiting Assistant Professor in the School of Business at the University of Mississippi.
- Managerial and Leadership experience in professional and social settings.

Education

- **Doctorate in Business Administration.** Univ. of Mississippi (Academic Year 2008).
Major: **Production & Operations Management**
Minor: **Management Information Systems**
- **Master of Science in Computer & Information Science.** Univ. of Mississippi. May 2002.
GPA 3.87.
- **Bachelor of Engg in Computer Engg.** Goa University, India. Aug 1998. First Class Honors.

Technical Skills

- SAP ERP package related experience:
 - Development in the **SAP Web Portal 7.0** Environment.
 - **CM** (Campus Management).
 - **(BI)** Business Intelligence,
 - **XI** (Exchange Infrastructure)
 - Programming with ABAP and BSP.
- **C/C++/ Shell Scripts:** In Windows and UNIX environment.
- Web-based client-server applications: On UNIX with programming in **Java, JSP, PHP** and Perl and databases including **Oracle and Mysql.**
- The **CPLX callable library:** for developing optimization algorithms.
- **Network Programming:** In Windows and UNIX environments.
- Programming on Handheld devices **Palm OS, WinCE.**
- Systems: Maintaining LINUX Clusters.

Professional Experience

Information Technology, University of Mississippi.

From January 2008 to present

Associate Director of Enterprise Applications and Visiting Assistant Professor of Business.

Responsibilities:

- Supervisor of the web team for department of Enterprise Applications in the Office of IT.
- Develop, Maintain and troubleshoot several applications for the University Community.
- Create and teach senior level elective ERP based courses in the School of Business.
- Train colleagues when required in new cutting edge technologies.
- Explore/Investigate new technologies/tools being considered for use by Office of IT.

From April 2006 to December 2007

Systems Analyst

Environment:

SAP modules, Java, Sun OS, Oracle database.

Responsibilities:

- Web-enabling and supporting SAP's Campus Management related functionalities.
- Application development in Campus management module with ABAP programming.
- Report generation from business data warehouses.
- Integrate SAP applications with applications on 3rd party systems.
- Manage and train a student worker.

Mississippi Center for Supercomputing Research, MS

From Jan 2002 to July 2002 and Jan 2005 to April 2006.

Student Supercomputing Consultant

Environment:

PHP, Perl, MySQL, C/C++, UNIX, Linux, Supercomputers and Clusters.

Responsibilities:

- Web-based client-server application development to facilitate better management of Systems and Users.
- Building, installing, documenting and maintaining applications on Supercomputers.
- Supercomputing user support.

Department of Computer Science, University of Mississippi

From Aug 2000 to Dec 2001

Research Assistant

Environment:

Windows NT/2000, WinCE, Palm OS, Linux, C/C++

Responsibilities:

- Research Support for Dr. Bob Cook of the Computer Science Department.
- Developing applications and porting across various platforms.

Wipro Global R&D, Bangalore, India

From April 1999 to July 2000

Software Engineer

Environment:

UNIX, Windows NT/2000, C/C++

Responsibilities:

- Developed the diagnostic tool component for iPlanet Sunscreen firewall for Windows.
- Development of the Installation Software Package for Apollo Printer software.
- Quality assurance (testing, bug-fixing, maintenance) of the U/WIN product.

WebSci Technologies, Goa, India

From Aug 1998 to April 1999

Software Engineer

Environment:

UNIX, Windows NT/2000, C/C++

Responsibilities:

- Training with Windows API, UNIX Shell scripting and socket programming.
- Development of a Proxy Server for Windows.

Teaching Experience

- **BUS400:** ERP and SAP. **Starting Fall of 2008.**
An introductory course to Enterprise Resource Planning with SAP software with a focus on business process integration.
- **MGMT372:** Operations Management. **Summer 2004, Spring 2007 & Fall 2007.**
A survey of production and operations management functions. Study procedures and techniques and learn to solve a variety of Operations management problems.
- **CSCI259:** Introduction to Programming Using C++. **Spring 2002.**
Among other things this course covers character processing, use of pointers with strings, arrays and functions, data structures etc...
- **CSCI223:** Computer Organization & Assembly Lang. Prgrmg. **Fall 2001 & Summer 2002.**
Introduction to the architecture of computer systems. The topics include processor and external device structures and operation, machine operation and instructions, assembly language concepts, and assembly language programming.
- **Corporate Training at Wipro Global R&D (Summer 2000).**
An overview of the Windows NT operating system architecture and an Introduction to Win32 programming for new hires at Wipro Global R&D.

Leadership/Management Experience

- Presently Associate Director of Enterprise Applications. Responsibilities Include:
 - Manager of the web team of Enterprise Applications in the Office of IT
 - Train colleagues in new technologies when required.
 - Support developers when required with customer interactions.
- Manage student worker project. Responsibilities included:
 - Training the student worker in Java/JSP technologies and UNIX
 - Over viewing all aspects of the development.
- Took initiative and leadership in IT projects at UM including among others Faculty Credentials, Business Warehouse, and creation of customer additional data in student record.
- President of India Assoc. at the Univ. of Mississippi (2000-2001), Responsibilities included:
 - Organized cultural activities,
 - Coordinated re-location of new students arriving from India.
 - Organized a successful fund-raiser for the victims of an Earthquake that hit India in 2001.
- Student Committee Member at the College of Engineering, Goa University (1996-1997):
 - Representative of the Engineering College or Engineering at the University.
 - Addressed the needs of the students including additional incentives for faculty in understaffed departments.

Awards and Achievements

- **Best research poster** award in Mathematics and Computer Science at Sigma Xi poster Symposium 2006 at the University of Mississippi with C. Rego.
- **First Place** for research paper presentation (student category) at the Mississippi Academy of Science Conference (MAS 2005) with S. Lukose and S. Conlon.
- **Second Place** for research paper presentation (student category) at the Mississippi Academy of Science Conference (MAS 2005) with C. Rego and F. Glover.
- **Student research grant from USENIX** towards completion of Master's Project total of \$3000.00.

- Represented Univ. of Mississippi in the **ACM programming Contest** in 2000 and in 2001.

Working Research Papers

A Filter and Fan algorithm for the Capacitated Minimum Spanning Tree Problem, (with C. Rego and F. Glover) in preparation.

Application of the Scatter Search metaheuristic for the Capacitated Minimum Spanning Tree Problem, (with C. Rego) in preparation.

Relaxation Adaptive Memory Programming (RAMP) Approach to the Capacitated Minimum Spanning Tree Problem, (with C. Rego and F. Glover) in preparation.

Referred Research Publications

Mathew, F., and C. Rego. Recent advances in heuristics for the capacitated minimum spanning tree problem. The Decision Sciences Institute Conference (DSI), San Antonio TX, November 2006, 31021-31026.

Lukose, S., F. Mathew, S. Conlon and P. Lawhead. Extracting Financial Information from Text Documents, Proceedings of the Tenth Americas Conference on Information Systems, New York, New York, August 2004, 1933-1939.

Research Presentations

Mathew, F., C. Rego and F. Glover. A Relaxation Adaptive Memory Programming (RAMP) approach for the Capacitated Minimum Spanning Tree (CMST) Problem, The Decision Sciences Institute Conference (DSI), San Francisco, CA, November 19-22, 2005.

Mathew, F., C. Rego and F. Glover. RAMP for the Capacitated Minimum Spanning Tree, INFORMS (Institute for Operations Research and the Management Sciences) Annual International Meeting, San Francisco, CA, November 13-16, 2005.

Lukose, S., F. Mathew, S. Conlon and P. Lawhead. Effective Information Extraction using Natural Language Processing Techniques, division of Mathematics, Computer Science, and Statistics, Mississippi Academy of Sciences (MAS) Annual Meeting, Oxford Convention Center; Oxford, MS, February 16-18, 2005.

Mathew, F., C. Rego and F. Glover. A RAMP Algorithm for the Capacitated Minimum Spanning Tree, division of Mathematics, Computer Science, and Statistics, Mississippi Academy of Sciences (MAS) Annual Meeting, Oxford Convention Center; Oxford, MS, February 16-18, 2005.

Conlon, S., G. Grant, S. Lukose, F. Mathew and M. Sheikh. The Role of Information Extraction Systems in Improving E-Business, The Decision Sciences Institute Conference (DSI), Boston, MA, November 20-23, 2004.

Poster Presentation

Mathew, F. and C. Rego. A Relaxation Adaptive Memory Programming (RAMP) approach to address the Capacitated Minimum Spanning Tree (CMST) problem. Sigma-Xi Poster Symposium

in Mathematics and Computer Science, 2006, University of Mississippi.

Mathew, F., C. Rego and F. Glover. Experiments with the RAMP Approach on Solving the Capacitated Minimum Spanning Tree Problem, INFORMS (Institute for Operations Research and the Management Sciences), Interactive Section, Annual International Meeting, San Francisco, CA, November 13-16, 2005

References – Professional:

Mr. James A Ling,

Director of Enterprise Applications,
Office of IT,
University of Mississippi,
E-Mail: aling@olemiss.edu

Mr. Jason G Hale,

Manager of Research Support,
Mississippi Center for Supercomputing Research (MCSR)
University of Mississippi,
E-Mail: jghale@olemiss.edu

Mr. Soji Joseph,

Senior Manager,
Wipro Global R&D,
India
E-Mail: soji.joseph@wipro.com

References – Research:

Dr. Cesar Rego (PhD Advisor),

Associate Professor,
Department of MIS/POM,
School of Business,
University of Mississippi.
E-Mail: crego@bus.olemiss.edu

References – Teaching:

Dr. Milam Aiken,

Professor and Chair,
Department of MIS/POM,
School of Business,
University of Mississippi.
E-Mail: maiken@bus.olemiss.edu

Dr. Conrad Cunningham,

Professor and Chair,
Department of Computer and Information Science,
School of Engineering,
University of Mississippi,
E-Mail: Cunningham@cs.olemiss.edu