

Patrick R. Michaud

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PROFILE

Dynamic leader with 15+ years of experience in project management, software development, system and network administration, and Internet based systems. Talented programmer and software architect; Brainbench master certifications (#3792196) in Perl, PHP, Linux, Unix, Apache, HTML, C, MySQL, and TCP/IP; expert in C++, CGI, LDAP, CVS, and open source systems. Recognized as an outstanding communicator, presenter, and instructor.

PROFESSIONAL EXPERIENCE

Texas A&M University-Corpus Christi, Corpus Christi, TX

2000-Present Professor of Computer Science

1995-2000 Associate Professor of Computer Science

1990-1995 Assistant Professor of Computer Science

Leader within the College of Science and Technology and Advisor to the University. Promoted into positions of increasing responsibility as the University grew rapidly and changed from a teaching oriented, upper-level institution to a teaching and research focused, comprehensive four year university. Guided the University community in understanding the applications and impacts of information technology.

- Principal investigator or co-investigator for over \$4.3 million in grants and contracts focused on applications of computer, Internet, and GIS technologies to real world problems in education and health care.
- Lead system and network administrator for six computing classroom laboratories, including eight servers and over 200 workstations in mixed Linux, Windows, and Unix environments.
- Designed and taught new courses in object-oriented systems (Java, C++), Unix systems programming, system and network administration, and Unix scripting languages.
- Assisted in development of a Geographic Information Science curriculum.
- Directed twenty-six Master of Science graduate projects.

Conrad Blucher Institute Division of Nearshore Research, Corpus Christi, TX

1996-2003 Director

1991-1995 Research Scientist

Designed and created a nationally recognized web based system (<http://lighthouse.tamucc.edu>) for the automated collection, analysis, and distribution of coastal environmental data in the Texas Coastal Ocean Observation Network (TCOON) and related observation networks. These networks collect data in near real time from over 70 environmental data collection platforms throughout the Texas Gulf coast. Directed a division of 12 full-time professional staff and 10 part-time student positions.

- Principal investigator and project manager for over \$4.7 million in grant and contract funding for development, maintenance, and operation of web-based coastal monitoring systems.
- Designed and developed systems for automated collection, analysis, and web-based distribution of TCOON environmental data, including automated computation of tidal datums meeting National Ocean Service standards. Systems were implemented using Perl, shell scripts, C, MySQL, Apache, PHP, CGI, CVS, and libgd on a Red Hat Linux platform and a combination of packet radio, satellite, and telephone communications channels. Presented system and design concepts at ten conferences and workshops, including two international conferences.
- Co-developer of automated neural-network based systems for short-term predictions of coastal water elevations. System developed using Matlab, Perl, and PDL on a Red Hat Linux platform.

- Lead system and network designer for 8 server/50+ workstation research network in a mixed operating system environment.
- Designed, implemented, and deployed Linux-based automated remote environmental data collection systems using PC-104 hardware components, custom Linux kernels, and a combination of C programs and Unix shell scripts.

2002-Present d/b/a Patrick R. Michaud

Entrepreneur. Conceived, developed and released PmWiki™ software, an open-source tool for collaborative authoring and maintenance of web sites. Developed enhancements per user requests. For more information see <http://www.pmichaud.com/wiki/PmWiki/PmWiki>. Currently used by at least 110 web sites in over 21 countries.

2002-2003 Thunder Data Systems, Corpus Christi, TX

Consultant. Provided initial setup and local customizations of PmWiki™ software in support of the Concrete Street Amphitheater web site (<http://www.concretestreet.net>).

1999, 2002 Optimist Coastal Bend Chess Federation, Corpus Christi, TX

Consultant. Developed and maintained web site in PmWiki™ and an online registration and reporting system in PHP, Perl, and Microsoft Excel for two statewide chess tournaments with over 1300 participants.

2000 University of Mississippi, Jackson, MS

Consultant. Conducted demonstration analysis of nursing workforce issues and held seminar on application of GIS to nursing workforce issues.

1995-1997 Corpus Christi Caller-Times, Corpus Christi, TX

Consultant. Provided installation and management of Unix/Linux servers for newspaper's initial web presence. Developed software in Perl to index and translate articles from internal publishing system into web-compatible formats.

1995-1997 Greater Corpus Christi Business Alliance, Corpus Christi, TX

Consultant. Guided development and administration of their web site and office Internet connectivity.

1992-1993 Financial Data Systems, Corpus Christi, TX

Consultant. Reviewed system design specifications and provided assistance in IBM AIX system administration.

1989-1990 Executive Systems, Inc., Lafayette, LA

Lead Application Developer. Developed hypermedia-based distributed geological database system in C, Motif, and X-Window on the Solaris platform.

SELECTED PUBLICATIONS

- 2002 “A Multidisciplinary Student-Centered Laboratory”, *Proceedings of the 32nd American Society for Engineering Education/Institute for Electrical and Electronic Engineers Frontiers in Education(FIE) Conference* (Boston, MA), co-author.
- 2002 “Neural Network Forecasting of Storm Surges along the Gulf of Mexico”, *Proceedings of the Fourth International Symposium on Ocean Wave Measurement and Analysis*, co-author.
- 2002 “Harman and Harmpred: Web-based Software to Generate Tidal Constituents and Tidal Forecasts for the Texas Coast”, *Proc. of 19th AMS Conf. on Weather Analysis and Forecasting/15th AMS Conf. on Numerical Weather Prediction*, co-author.
- 2001 “Real-Time Data Collection and the Texas Coastal Ocean Observation Network”, *International Measurement and Control (InterMAC) 2001 Joint Technical Conference* (Tokyo, Japan).
- 2000 “A Web-Based System for Maintaining a Departmental Personnel List and Telephone Directory”, *The Journal of Computing in Small Colleges*.
- 1994 “Strawberry Pop-Tart Blow-Torches”, <http://www.pmichaud.com/toast>.

AWARDS

- 1998 “Top 40 under 40”, Corpus Christi Caller-Times and Greater Corpus Christi Business Alliance, Award presented to top forty young business professionals in community.
- 1986-1990 University of Southwestern Louisiana Fellowship Recipient.

EDUCATION

- 1990 PhD in Computer Science,
University of Louisiana (formerly University of Southwestern Louisiana), Lafayette, LA
- 1988 MS in Computer Science,
University of Louisiana (formerly University of Southwestern Louisiana), Lafayette, LA
- 1986 BS in Computer Science, Graduated summa cum laude
Texas A&M University–Corpus Christi (formerly Corpus Christi State University),
Corpus Christi, TX

PROFESSIONAL AFFILIATIONS AND CERTIFICATIONS

- 2003-Present Brainbench job certified Linux System Administrator and Unix System Administrator
(www.brainbench.com, transcript #3792196)
- 2002-Present Red Hat Certified Engineer, RHCE #808002519807115
- 1992-Present Member, USENIX and System Administrators Guild (SAGE)
- 1988-Present Member, Association for Computing Machinery