Patrick R. Michaud

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PROFILE

Dynamic leader with 17+ years of experience in project management, software development, system and network administration, and Internet based systems. Talented programmer and software architect; expert in Perl, PHP, Linux, Unix, Apache, HTML, C, MySQL, TCP/IP, C++, CGI, LDAP, Subversion, CVS, and open source systems. Recognized as an outstanding communicator, presenter, and instructor.

PROFESSIONAL EXPERIENCE

2004-Present   The Perl Foundation

Project leader and lead developer, Rakudo Perl 6 compiler. Created a Perl 6 regular expression and grammar engine for the Parrot Virtual Machine. Developed the Not Quite Perl (NQP) mini-Perl6 compiler and the Parrot Compiler Toolkit. Established processes for monthly software releases and long-term planning. Mentored developers and built an international team of volunteer contributors to Perl 6 development. Frequent speaker at international open source conferences and workshops. Conducted Perl 6 and Parrot workshops and tutorials. Member of Perl 6 language design team focusing on language implementation and performance issues. Completed several grants for Rakudo Perl 6 development.

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 (pmwiki.org).   Developed enhancements per user requests. Developed a self-sustaining international user community. Over 30,000 websites use PmWiki.

Texas A&M University-Corpus Christi, Corpus Christi, TX
2004-present   Systems Programmer III
2007-2008   Visiting Professor
2000-2004   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 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++), geographic information science, Unix systems programming, scripting languages, and system and network administration.
- Assisted in development of undergraduate and graduate Geographic Information Science curricula.
- Directed twenty-six Master of Science graduate projects.

2005-Present   Pm Informatics, Inc.

President and CEO. Negotiated sales, support, and development contracts for business and commercial-level users of PmWiki™ software.

2004-2006   Geospatial Research Innovation Design
Systems Engineer. Designed and implemented a quick-deployment, real-time data acquisition system for geographical information systems. Developed MapAdapt package to integrate University of Minnesota MapServer GIS package with wiki engine for real-time generation and annotation of geospatial data.

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.

2002-2004   Thunder Data Systems, Corpus Christi, TX
Consultant. Provided initial setup and local customizations of PmWiki™ software in support of commercial web sites and software projects.

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

2005   "DNR-TCOON: An Integrated Observation and Operational Forecasts System for the Gulf of Mexico", *Proceedings of the Symposium on Living in the Coastal Zone* (San Diego, CA), co-author.
2004   "Engineered training sets: enhancing the learning power of artificial neural networks for water level forecasts", *Proceedings of XIV International Symposium on Mathematical Methods Applied to the Sciences* (San Jose, Costa Rica), co-author.
2003   "Fostering Interdisciplinary and Discovery Learning", *Proceedings of the American Society for Engineering Education Gulf-Southwest 2003 Conference* (Arlington, TX), co-author.
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 Southwestern Louisiana (now University of Louisiana at Lafayette), Lafayette, LA
1988   MS in Computer Science,
        University of Southwestern Louisiana (now University of Louisiana at Lafayette), Lafayette, LA
1986   BS in Computer Science, summa cum laude
        Corpus Christi State University (now Texas A&M University-Corpus Christi),
        Corpus Christi, TX