

# Jacob Tyler Rettig

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## Objective:

To provide excellent service to an organization with the opportunity to advance in the computer science field.

## Education:

Master of Science: *Computer Science*, December 2009, Florida State University, Tallahassee, FL

Thesis Title: SAMOS/NGI Data Management System

Advisor: Dr. Daniel G. Schwartz

GPA: Cumulative 3.22

Bachelor of Science: *Computer Science*, December 2007, Florida State University, Tallahassee, FL

GPA: Cumulative 3.0

High School: June 2004, Marjory Stoneman Douglas High School, Parkland, FL

GPA: Cumulative 3.598

## Work Experience:

Florida State University: Graduate Research Assistant 01/2008 - present  
Center for Ocean-Atmospheric Prediction Studies

With the promotion to Graduate Research Assistant I am developing a data management system for FSU's contribution to the Northern Gulf Institute while continuing my previous responsibilities. The data management system includes logging metrological and ocean data from a tower to a PC, syncing the data to the processing servers, reformatting the data, auto quality controlling the data, tracking the progress of each day of data, and distributing the data through a user friendly interface. I am responsible for arranging regular interlock meetings with scientists, engineers, and other programmers working on the NGI project.

<http://www.coaps.fsu.edu/ngi>

Florida State University: OPS Programmer 03/2007 – 12/2007  
Center for Ocean-Atmospheric Prediction Studies

My responsibilities include maintaining and expanding SQL databases and the web interfaces connecting users to these databases to support an international marine meteorology data stewardship program.

<http://samos.coaps.fsu.edu>

Kappa Sigma Fraternity of FSU: Webmaster (volunteer) 01/2005 – 12/2007

My responsibilities included development and maintenance of SQL database and website content.

BJ's Wholesale Club, Parkland, FL: Cashier

11/2003 – 05/2004

My responsibilities included cashier duties, restocking of returned items, and counting money/receipts collected throughout the day. I left this job to attend college in Tallahassee.

**Computer Skills:**

On the job experience: Win 2000, ME, XP, Vista, Windows 7, Ubuntu Linux, UNIX shell.

Familiar with: Windows 95, 98, Mac OS 9, 10, and various Linux distributions. Experience in PC setup and configuration.

Self-taught networking skills. Created a home network connecting various PC systems and an internet web server.

Working knowledge of:

<b>Programming Languages:</b>	<b>Applications:</b>
Java	Microsoft Word
C++	Microsoft Excel
C	Microsoft FrontPage
HTML	Microsoft Power Point
JavaScript	Microsoft Visual Studio (6.0 & .NET)
C#	MS DOS prompt
Visual Studio .NET	Adobe Photoshop
PHP	NetBeans
SQL	Windows Movie Maker
Perl	Eclipse
bash script	

**Achievements:**

Promoted to Graduate Research Assistant 2008

Accepted into Kappa Sigma Fraternity 2004

6 Varsity Track and Cross Country Letter Awards 2000 - 2004

Advanced Placement Scholar Award 2004

Served on Congregational Council at Lutheran Ministry in Christ 2004

High School Certificate of Achievement for Chemistry 1 Honors 2003

**References:**

Mr. Shawn Smith: Research Associate (850) 644-6918

Dr. Mark Bourassa: Associate Professor (850) 644-6923

Dr. Mike Burmester: Professor (850) 644-6410

Dr. Xin Yuan: Associate Professor (850) 644-9133

Dr. David Whalley: Professor and Chair (850) 644-3506

### **Papers:**

Smith, S. R., **J. T. Rettig**, J. Rolph, J. Hu, E. C. Kent, E. Schulz, R. Verein, S. Rutz, and C. Paver, 2010: The Data Management System for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative. *Proceeding, OceanObs'09: Sustained Ocean Observations and Information for Society*, Venice, Italy, IOC/UNESCO and ESA, (in press).

**Rettig, J. T.**, M. A. Bourassa, J. Hu, E. M. McDonald, J. J. Rolph, and S. R. Smith, 2009: Data management system to collect, quality control, distribute, and archive near real-time marine data. *E-journal of Data Integration and Management on the Gulf of Mexico*, 4 pp

### **Conference Presentations:**

Smith, S. R., R. A. Arko, M. A. Bourassa, J. Hu, M. McDonald, **J. T. Rettig**, and J. J. Rolph, 2010: The Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative data management system. Poster, *International Conference on Marine Data and Information Systems 2010*, Paris, France, 29-31 March 2010.

Smith, S. R., R. Arko, M. A. Bourassa, J. Hu, M. McDonald, **J. T. Rettig**, and J. Rolph, 2009: The data management system for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) initiative. Poster, Annual Meeting of the American Geophysical Union, San Francisco, CA, 14-17 December 2009.

Smith, S. R., **J. T. Rettig**, J. Rolph, J. Hu, E. C. Kent, E. Schulz, R. Verein, S. Rutz, and C. Paver, 2009: The Data Management System for the Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative. Poster, "*OceanObs'09: Sustained Ocean Observations and Information for Society*" Conference, Venice, Italy, 21-25 September 2009.

J. J. Rolph, **J. T. Rettig**, M. A. Bourassa, J. Hu, E. M. McDonald, and S. R. Smith, 2009: Data management system to collect, quality control, distribute, and archive near real-time marine data. Presentation, *Northern Gulf of Mexico Cooperative Institute Annual Meeting*, Mobile, AL, 20-21 May 2009.

**Rettig, J. T.**, M. A. Bourassa, J. Hu, E. M. McDonald, J. J. Rolph, and S. R. Smith, 2009: Data management system to collect, quality control, distribute, and archive near real-time marine data. Presentation, *Data Integration and Management on the Gulf of Mexico*, Corpus Christi, TX, 15-16 May 2009.

Smith, S. R., S. White, and **J. T. Rettig**, 2009: Observations in the Gulf of Mexico from the Florida State University. Presentation, Third meeting of the GCOOS DMAC, Orlando, FL, 23-24 February 2009.