

John Murtari

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BACKGROUND SUMMARY

Very familiar with Open Source tools and methods. Detailed knowledge of System administration, Web design, the Apache server, DNS/BIND, PHP, MySQL, C, C++, PERL, shell scripting, JAVA, JavaScript, AJAX/Jquery, Tomcat, ECLIPSE, CASE tools and Configuration Management Systems on Linux, Red Hat, Ubuntu, and CentOS. Experience with embedded systems based on the 80x86 and 8051 micro controller.

- Modification of a UNIX real time kernel running on x86 to support remote high level language debug of a multi-processor system from an attached workstation.
- Lead developer on core mods to the MySQL Database server to support detailed usage reporting. Worked with client to improve performance of a large MySQL installation supporting 5-10 thousand queries/sec and multimillion row tables.
- Former member of the [ANSI Standards committee \(DM32.2\)](#) for SQL and database servers. Published in [LinuxPro Magazine](#).
- Created multi-threaded JAVA application which downloaded and stored tick data to perform programmed currency trading in real time.

EDUCATION

Syracuse University, Syracuse, NY
M.S. Computer Science

Jun 1985 - Dec 1986
GPA 3.4

U.S. Air Force Academy, Colorado Springs, CO
B.S. Astronautical Engineering

Jul 1974 - Jun 1978
Cum Laude, GPA 3.5, Order of Merit 72/981

PROFESSIONAL EXPERIENCE

AT&T Research Labs, Middletown, NJ

Mar 2015 – Dec 2017

Senior Software Engineer (Contract)- Test and deployment of a new DNS infrastructure to support the entire AT&T network and customers. Improved response times and better protection against DDOS attacks. Extensive work on improving software delivery to sites, moving older legacy DNS services to the new architecture, and coordinating with network operations during deployments.

Save Energy Systems, Boston, MA

Apr 2014 – Mar 2015

Senior Software Engineer (Contract)- Control software for embedded energy management system. PHP web interface based on Code Igniter framework on Ubuntu server. PERL, JAVA for control system and C & assembly for embedded 805X series micro controller. <http://www.SaveEnergySystems.com/>

AT&T Research Labs, Middletown, NJ
(same duties as most recent AT&T work.)

Oct 2012 – Apr 2014

Software Workshop Inc., Baldwinsville, NY **Feb 1995 – Oct 2012**

Systems Engineer – Company specialized in Web Site Hosting & Design Services. Custom programming in 'C' to change the core of both the MySQL and Postgres DB servers. This included extensions to SQL syntax in support of new features.

High performance database design and tuning. Setup MySQL servers for high availability using replication. Installed & configured Tomcat application server to support servlets and JSP in an Apache/Redhat environment.

Very knowledgeable in Apache configuration, MySQL, PHP, PERL, shell scripting, Solaris, Linux (RedHat/CentOS/Ubuntu). Administered a complex networking environment with a mix of Windows PCs, Linux and Solaris servers including CISCO routers and BGP-4.

Martin Marietta, Syracuse, NY **July 1993 - January 1995**

Consultant - Perform system analysis and performance studies on the Seawolf Submarine combat system (BSY-2), one of the largest distributed computing environments ever used on a military system. Modified data collection tools so a logic analyzer could efficiently be used to create performance statistics on a system running Ada application code.

Eclat Technologies Inc, Syracuse, NY **Sep 1991 - July 1993**

Project Leader - Managed a custom software development project for Eastman Kodak. This included responsibility for the overall design effort along with the conduct of software development reviews at the customer's facility. The project was a great success and resulted in a very satisfied customer. Experience with C++ developing a Microsoft Windows application for operator control of a remote sensing device.

General Electric Company, Syracuse, NY **Jan 1987 - Sep 1991**

Project Leader - Responsible for the complete integration and test of a \$1,500,000+ software maintenance facility to be delivered to a radar customer. This involved creation of a detailed schedule to integrate the efforts of many different organizations within General Electric. I brought a sense of order to what had been a very fragmented effort.

Senior SW Engineer – Worked in the Operating Systems group making modifications to a UNIX real-time kernel to support remote debug. Modified an existing external debugger to communicate with our embedded system.

U.S. Air Force, Syracuse, NY **Apr 1980 - Dec 1984**

Operations Officer, Recruiting Squadron - Responsible for the supervision of 10 staff members; as second-in-command was instrumental in assisting the commander by formulating and implementing programs to achieve recruiting goals. Extensive experience in handling personnel problems. Played a key role in making the squadron #1 in 1983 for the entire Northeastern United States -- something which had not been done in five years.

T-37 Instructor Pilot - Gave students the knowledge, skill, and confidence necessary to pilot a twin engine jet aircraft through aerobatic, instrument, and formation maneuvers. Earned FAA Certificate as Commercial Pilot; accumulated over 1000 hours as pilot-in-command.