

Michael A. Raymond

Education

- Carnegie Mellon University, BS in ECE / minor in CS (2000)
- University of Minnesota, Masters in CS (2007)
- American Military University, Masters in Intelligence Studies (2010 - present)

Work Experience

Silicon Graphics International (SGI) (2001 - present)

- Primary developer for SGI's Message Passing Interface (MPI) product called MPT, a high performance communication middleware for supercomputers. I worked closely with customers to significantly improve the InfiniBand and shared memory performance, increased the performance of many collectives by more than 10X, and have increased the scalability to allow it to run across more than 11,000 cluster nodes and 110,000 processes. (2007 - present)
- Designed, developed, and tested SGI's IRIX and Linux real-time operating system features and tool support. This involved restructuring OS components to scale to hundreds of cores. (2001 - 2005)
- Regularly meet with customers and corporate partners, and present at conferences around the world

TimeSys Corporation (Intern & Part Time) (2000)

- Parallelized and redesigned TimeSys's real-time Linux kernel features and tool support

Army National Guard (1997 - present)

- Deployed to Afghanistan leading a group of 10 Soldiers mentoring 90 Afghani drill sergeants as they trained 1400 Afghani privates at a time. (2011-2012)
- Fire Support Officer for an armored reconnaissance squadron leading 18 Soldiers and planning and coordinating lethal fires, public affairs and leader engagement (2009 - 2010)
- Battalion military intelligence officer. I organized and led an opposing force of 20 fake insurgents to realistically train several hundred of the battalion's Soldiers during annual training. To support the effort I produced propaganda videos and fliers. (2008 - 2009)
- Deployed for Operation Iraqi Freedom where I organized intelligence reporting and created an Access database to support complex queries. I also assisted my commander in meeting with local Iraqi generals, sheiks, and provincial leaders. Earned the Combat Action Badge. (2005 - 2007)

Skills

- Programming Languages: C, Python, SQL, and some C++, Java, Fortran, and Objective C
- Additional Skills: MPI, GUI and OpenGL, UNIX, Apple iOS, some Matlab, test development
- Spoken Languages: Some Spanish, Dari / Farsi and Arabic

Publications and Awards

- Three patents in the areas of real-time storage area networks, process checkpoint-restart, and computer security
- The January 2008 edition of Fires Bulletin published an article I wrote on a military intelligence database I created
- While in Iraq I published a weekly newsletter for the battalion's families and published a separate one for the base
- Authored several articles for SGI's former customer newsletter Pipeline

Status

- I have a DoD security clearance

Other Skills

- I am an Assistant Scoutmaster with the Boy Scouts and regularly lead high adventure trips backpacking and paddling
- I have a black belt in Tae Kwon Do
- I enjoy traveling around the world, bicycling, sea kayaking, museums, and reading
- I have run my own Internet domain since 1999

Contact Info

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