

Sidney August Cammeresi IV

Summary

- Over 15 years of software development experience
- Master's in Computer Science
- Low-level, systems software on Linux/UNIX systems
- US and EU citizenships, fluent in Italian

Experience

Staff Software Engineer, Clustrix – Seattle, Washington

November 2011 – present

- Developed a distributed SQL database (relational, transactional, shared-nothing)
- Increased parallelization of large queries by making the execution engine run different query fragments on different CPUs
- Programmable, complex upgrades of the system catalog
- Added a fair scheduler to the transaction manager to prioritize small queries
- Implemented a lockless skiplist container
- Profiled and fixed numerous performance problems, creating new profiling tools as needed
- Wrote multithreaded, continuation-passing C code on Linux
- Performed code reviews, conducted technical interviews, wrote performance reviews
- Presented on best practices for software development, mentored new hires
- Proactively monitored all source code changes for quality and correctness
- Led a reading group focusing on algorithms, databases, and modern hardware

Senior Software Engineer, Quest Software – Buffalo Grove, Illinois (remote)

August 2007 – November 2011

- Overhauled low-level tools for backing up and restoring virtual machines; wrote multi-threaded C on Linux, supporting output to CIFS, FTP, NFS, and SFTP
- Created new tool for mapping active filesystem blocks and supported ext4, LVM, and RAID
- Instructed other developers in proper tools' usage
- Over 30,000 customers; annual revenue in eight figures

Software Engineer, Telsasoft – Minneapolis, Minnesota

August 2004 – July 2007

- Led reimplementing of an entire product line of monitoring software for cellular networks; subsystems included alarm notification, operational measurement collection, and reporting
- Wrote Linux server software using Python, PostgreSQL, PostGIS, SNMP, and CORBA and interfaced software to a wide variety of cellular networking equipment
- Organized development goals using customer feedback

Education

Master of Computer Science – University of Illinois at Urbana-Champaign – 2003

BS in Computer Science – University of Illinois at Urbana-Champaign – 2000

Postgraduate Diploma in Business Administration – Heriot-Watt University – 2015

Buzzwords

The languages and technologies that I have most recently and extensively used include:

C, Python, PostgreSQL, MySQL, L^AT_EX, Linux, OpenBSD, Mac OS X, Git, TCP/IP, pthreads, object-oriented design, database design, lockless data structures, continuation passing