

**Michael Ayres - [mayres@massconfusion.com](mailto:mayres@massconfusion.com)**

**.objective**

Software engineer position where my skills and work experience will add value to the company's operations.

**.skills**

Programming Languages:

.recent: Java, Swing, Javascript, Flex, Shell Scripting, SQL, pl/sql

.older: C, C++, VC++, perl, php

Operating Systems: Windows \*, Linux flavors, OSX, Solaris - Embedded systems: DMSS, NOS

Areas of Interest: code optimization, memory optimization, scalability and linux security.

**.education**

University of California, San Diego B.S. Computer Science (3.0/3.2) 2001

Tokyo Institute of Technology, Tokyo Undergraduate Researcher 1999-2000

**.work**

**Software Engineer (DE) 2005-present Cisco Systems Inc**

Lead DE for the Director (porting of Netsift Collector to Java) in a J2EE environment (Jboss,EJB2/3,javascript,jsp,struts). Designed and implement a scalable Switch/Director message scheme using SOAP. I implemented a functional equivalent Packet Header parser / check module in C/C++ for ASIC testing and rapid software development for a Nexus Line Card. UI DE for SME (Data at rest crypto solution) for Tapes in J2EE environment. Lead UI DE for IOA (I/O Acceleration) feature in DCNM-SAN (J2EE + Swing). Lead UI DE for SME Disk and Key Manager. Lead DE for DCNM webclient dashboard (showcase feature) using Adobe Flex.

**Software Engineer 2005-2005 Netsift**

Joined Netsift in Dec 2004, acquired by Cisco June 2005. Responsible for software quality. Implemented: coding standards & review process. Added lint, electric fence & doxygen to build process. Designed and implemented a Windows application and driver using NDISWrapper (Visual C++) to intercept packets and validate against a list of threat strings loaded from the collector. Implemented portions of the Netsift Collector (C++, php, sql, psql stored procedures) part of which is Patent Pending. Lead UI designer prior to acquisition. Local team lead during acquisition.

**Software Engineer 2002-2004 Nokia**

Designed and implemented UI software used in Nokia S40 CDMA mobile phones, as a consultant, temp, and as a regular employee. Implemented applications for Nokia Series 40 using OOC and Nokia proprietary tools, while using Perl/Bash scripts for build management and debugging. Developed and managed Sprint specific features for Nokia phones. Member of a working group to optimize existing code & reduce the possibility and impact of bugs during regular software development.

**.work (older)**

**Co-Founder/Developer 2001-2004 Netnose**

As a co-founder of the search engine company Netnose.com, designed and developed large portions of the search engine software and related components including: search engine written in Perl (ported to C), primary searchable database using mysql, a web crawler written in Perl (ported to C), keyword based advertising and billing systems written in C, website development using xHTML & JavaScript, server maintenance and management scripts using Perl and shell scripting, and an IE toolbar using ATL and Visual C++. Development ceased in early 2004.

**Software Engineer 2001-2003 Teleca USA**

Implemented components of TLS 1.0 from RFCs using C, for mobile platforms. Contributed to the design and development of Teleca USA's IP Over the Air (IOTA) client. Assisted in the integration of Teleca USA's Browser and IOTA client with various mobile phone models and manufacturers, and provided long term onsite consulting for Nokia.

**Consultant 2000 JCI (Japan Communications Inc)**

Lead Programmer of an international team to construct a proof of concept "Fantasy Baseball" demo for mobile phones in Japan. Created a platform for WAP application development consisting of: Solaris x86 server configuration and management, worked with the team DBA and other members to design the business rules, tables, stored procedures, and middleware for use on an Oracle 8i database, wrote HDML, WML, i-mode, and cHTML code generation applications.

**Consultant 1997-2001 CandyDirect**

Programmer, Site Designer, and Systems Administrator for candydirect.com, a San Diego based online retailer. Duties over the years include a "from scratch" design and implementation of a shopping cart solution & an affiliates program in Perl, and server administration (ie security updates, system upgrades, email maintenance, DNS, mysql, 50+ virtual servers) over the course of multiple hardware upgrades and versions of slackware and RedHat Linux.