

Marie Charisse Gascon

161 Saratoga Close NE, Calgary, Alberta T1Y 7A1, Canada

Home: (403) 569 7254 • Mobile: (403) 470 6104 • cha.gascon@gmail.com • <http://www.chasys.net>

Software Engineer – Key Qualifications

- 4 years substantial experience in C/C++, and Java software development on various platforms, with emphasis on and Linux/Unix systems and embedded programming, GUI/multimedia application development, network/client-server, and mobile enterprise applications
- 2 years of Technical Leadership experience, with skillful project planning, effective team and individual mentoring, coaching and motivation
- Exceptional ability to quickly master new software/hardware and apply its full range of capabilities, solid analytical skills and algorithmic knowledge for complex problem solving
- Capable of on-site or remote systems administration and client support for critical operations with on-call duties and shifts, thrives under pressure and detail-oriented in time-sensitive situations

Technical Skills

Programming Languages	Java, C, C++, Unix shell scripting, HTML, PHP, Perl, Python, SQL, PL/SQL
Technologies	J2EE (EJB, JMS, Servlets, JSP, Struts), JDBC
GUI/Graphic Toolkits	Gnome/GTK+, X Window System, Simple DirectMedia Layer (SDL), Swing
Multimedia	MPEG-4, G723, YUV, xvid, ffmpeg, liveMedia
Operating Systems	Linux (Red Hat, Fedora, CentOS, Debian, Ubuntu), Solaris, Windows
Databases	Oracle, MySQL, PostgreSQL, SQLite
Web/Application Servers	JBoss AS, Apache httpd, Apache Tomcat, OC4J
IDEs/Editors	Eclipse, Anjuta DevStudio, KDevelop, vi
Protocols	TCP/IP, DNS, BGP, CIMD, RTSP

Work-Related Experience

Senior Software Engineer (5/2007 – 1/2009), **Software Engineer** (4/2005 – 2/2006)

Neugent Technologies Inc. (<http://dvr.neugent.net>)

- Pioneering Engineer responsible for creating server-side software for the complete product line of the Linux PC-Based Digital Video Recorder (DVR). The company's flagship product is a surveillance system that consists of an audio/video capture card, kernel module (device driver), server software that runs on top of Linux (Fedora flavor), Windows remote-viewing client software, and other integration applications (streaming mobile view, POS integration)
- In charge of all aspects of development of the DVR's server-side applications, from the device driver to the front-end, software packaging and installer, research and implementation of new features, customizing for special requirements, testing, and porting to new releases of Fedora and other Linux distributions
- Facilitates product builds and releases, resolves bug reports and creates patches, provide high-level support to clients, ensures that the release source code is up-to-date and bug-free.
- Conducts benchmark and performance/stress tests for optimization, created test software for quality assurance process of hardware production
- Provides technical direction to the company, mentors and guides junior members of the team, extends assistance to the production team as well as support to other departments (embedded and hardware teams).
- Technologies used: C/C++ Unix/Linux systems programming, Linux (Fedora, Red Hat Enterprise Linux, CentOS, Debian, Ubuntu), Linux kernel module development, Gnome, GTK+, Simple DirectMedia Layer (SDL), RTSP, audio/video (ffmpeg, xvid, MPEG-4, G723, YUV), PostgreSQL
- Software projects:
 - 4/8/16/32-channel DVR server
 - 8/16-channel full frame rate and D1 resolution video recording using multiple cards
 - DVR running on live Linux installed in USB memory sticks or DOMs

- A hybrid video recorder server that streams and displays video from network/IP cameras
- A portable Linux machine to be fitted in police cars for mobile surveillance
- integration to a POS system for text data on video

Software Development Engineer (2/2006 – 5/2007)

Blueblade Technologies Inc. / Ateneo Java Wireless Competency Center

- Developed Java-based SMS/MMS services facilitated by a web frontend, prepared necessary documents and acceptance tests as required by the telco prior to launching the service, created testing applications for developers and automated user-acceptance testing
- In charge of configuring, deploying and troubleshooting SMS/MMS gateway servers running on JBoss installed in Sun Solaris and Linux servers with MySQL as database
- Ensured 24x7 operation and connectivity to mobile carriers, enhanced and automated log check procedures for local and remote servers, created monitoring and backup scripts, setup testing servers and development process to simulate SMS/MMS functions
- Team Lead for an outsourced web development project with Smart Telecommunications Inc. involving development of internal web applications for their massive Oracle database.
- Technologies used: Java J2EE, EJB, JMS, Servlets, JSP, JavaScript, JBoss AS, Sun Fire and Sun SPARC Servers, Sun Solaris OS, Fedora Linux, MySQL, Oracle 10g, Oracle PL/SQL, OC4J

Part-time Lecturer (6/2006 – 10/2006)

Department of Information Systems and Computer Science, Ateneo de Manila University

- Taught CS 156 – Management of Communication Technologies, an introductory course to data communications, computer network structure and architecture, network management and security

Contract Developer (4/2004 – 5/2004)

Software Ventures, Inc.

- As part-time contract work along with 2 other team mates, created a Linux-based application for large scale encoding of images of scanned documents for Clark Data Center Inc.
- Technologies used: Unix/Linux systems programming in C, Gnome, GTK+

Government Intern (4/2004 – 5/2004)

Advanced Science and Technology Institute (ASTI), Department of Science and Technology, Philippines

- Participant of Presidential Summer Youth Work Program - Government Internship Program 2004
- Created a GUI installer for the thin client project Bayanihan Linux Terminal Server
- Technologies used: Unix/Linux systems programming in C, GTK+, Linux Terminal Server Project

Education

Bachelor of Science Major in Computer Science (2001-2005), Ateneo de Manila University

- **Thesis: Constructing a DNS-Based Client Redirector for Generic Load Balancing**
 - A BGP-based load balancing DNS server in Java. Uses Border Gateway Protocol (BGP) data for netographical proximity
 - Deployed at <http://www.eradiportal.com>, an internet web radio streaming service with co-located servers, as well as being used as a web mirroring service by an ISP
 - Awards / Citations:
 - Poster presenter, 27th Annual Philippine-American Academy of Science and Engineering (PAASE) Meeting And Symposium, Manila (2007)
 - Finalist, Bank of the Philippine Islands (BPI) Awards for Best Research (2005)
 - Nominee, Dean's Award for Student Research, School of Science and Engineering, Ateneo de Manila University (2005)
 - Presenter, 5th Philippine Computing Science Congress, University of Cebu (2005)
 - Presenter, The 2005 Computer Science Symposium, University of the Philippines
- **President** (2003-2004), **HR Committee Head** (2002-2003), Computer Society of Ateneo