

Marcel Landman

Always-On Systems™

Reliability – Scalability – Artificial Intelligence

Client/Server • Clustering • Parallel computing • Security • Database • E-commerce • Load balancing • High Availability • Fail-over

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Qualities

20 years C++/C; Affable, people-oriented team player. Understands both technology and people. Tenacious, focused. Adaptable, no *challenge beyond my abilities*. Code: Clean, efficient, secure, scalable, *readable*. My philosophy: *code is more often read than written*.

Skills

Software development: C++/C, SQL, Python, perl, Java, client/server, load balancing, parallel computing, imap, SMS, PBX, CVS, SVN, PKCS#11, Tcl/Tk.

Network design & security: high availability, fail over, clustering, Linux (routing, QoS), openvpn, X.509, VOIP, NX, ipsec, PKCS#11, watchguard, cisco, alteon.

Web development: DHTML, PHP/Pecl, Perl, JavaScript, CSS, E-commerce

Operating systems: Linux, Windows, Solaris, HP-UX, OSX, FreeBSD, VAX, ScoUnix, Netware, *advanced bash scripting*, (C)LVM.

Languages: Dutch, English, (basic German, French, Bengali, Spanish)

Other: Intuitive sense of other people's capabilities. Very good at matching a task to a person (delegation).

Career summary

Ubiquisys Ltd. 2008-2012

Ubiquisys is *the* femtocell specialist – ranked by ABI Research analysts as the number one femtocell vendor for both product innovation and implementation. Ubiquisys is the founder of the Femto Forum and is a World Economic Forum 2009 Technology Pioneer.

- Highly available mobility service for hand over between cells.
 - Mobility service uses SIP, XMPP and Iuh signalling.
 - Oversaw deployment with biggest mobile operator in Japan using HP blade hardware
- PKCS#11⁽¹⁾ Hardware driver & Certificate signing Authority (CA) application for tamper proof security token in a security fenced system.
- Xen development cluster with budget active/active mirrored SAN backend.
- Always-On 100% up high-availability cluster for telecoms hardware deployment

¹ <http://www.rsa.com/rsalabs/node.asp?id=2133>

service.

- Selinux modules to deny everything except for expected activity on the server – even for root.
- Scalable on commodity hardware to make re-deployment and infrastructure changes simple and fast
- Data model that supports concurrent access and emergency roll back
- Dual-site clustering to protect against data centre failure
- Maintainable by intermediate sysadmins
- 100% testable live upgrades with guaranteed zero down time
- Guidance for dev team for server applications that are secure, scalable and fault tolerant

Pulsic Ltd. – Software release cluster

2005 – 2008

Pulsic Limited is a fast-growing EDA company focused on custom design automation™ (CDA®), providing technology solutions to address the challenge of automating custom design providing design services to the top ten memory global memory companies.

- Software release cluster for multiple platforms including Linux, Solaris, HP-UX and Windows.
 - This service reduced the ticket-to-release time for all platforms from 14 days to 24 hours, thereby greatly improving the responsiveness to customer needs, customer satisfaction and competitiveness.
- Overhaul of the infrastructure to increase security, making it more fault tolerant and increasing productivity of the development team.
- Encrypted hard drives for developer laptops
- QoS configuration of VOIP infrastructure and home workers VPN (NX)

Panchang.com – Co-Founder, Director CTO, Senior developer

1997 – 2005

Conceived, researched and developed ground-breaking multi-platform, multi-media, patent-pending Time Quality™ management technology. The flag-ship launch product is the Panchang Time Planner, which can be viewed at www.panchang.com.

- Wrote a custom tcp/ip server which does all the advanced mathematical calculations (trigonometry & statistical). The server provides the information in a media independent way, allowing delivery to web, mobile phones, voice, email, print, etc. The server was written in C++ and is platform independent, but the cluster runs under Linux through a load balanced switch (alteon) to distribute many small tasks, while TTL_PAPERS is used for large computing tasks. It also uses MySQL to cache results.
- Directed a team of developers(7) that wrote the language parser and GUI interface (Visual C++ and Visual Basic) to the patent pending language “PlanetScript” (the language parser runs on the calculation server).
- Wrote a custom TCP/IP server to deliver calculation results through SMS messages. (Or any other SMS messages) the server uses a Vodafone Radio pad.
- Wrote a PBX server that accepts incoming phone calls and presents them with a menu to deliver calculation results through voice. The server uses Dialogic hardware. (The server also provides voice mail)
- Wrote an application (for cron) to deliver calculation results via email using

sendmail.

- Checked code of other developers for security problems and scalability issues.
- Designed and implemented network security (linux, watchguard).
- Implemented web design (MySQL, PHP/Pecl, Dhtml, C++, Perl)
- Designed the MySQL database cluster (using RAID and slaves)
- Wrote the e-commerce solution, shopping basket and credit card security with real-time order fulfilment.
- Wrote the customer service tools, statistical reports, log analysis software and management reports.
- Wrote an imap client (C++) to manage customer service emails, which includes an index feature that associates incoming emails to the customer record in the database even if the email address has changed.
- Wrote an application for delivering announcements via email using sendmail.
- Wrote the product management tools and stock control.
- Wrote a content management system to allow the writers to update content in their private version of the website and then deploy to the website without affecting the style or functionality.
- Wrote a java GUI interface to the media independent calculation server.

Independent Consultant – 1990–1997

Software development, network design and security; database design.

Clients included: The English Teddy Bear Co. (UK); Timing Ltd.(UK); GVP Publishing (USA); Stumpel Automatisering BV (Holland) www.stumpel.nl; BBT Publishing (Belgium), Getronics (Holland) www.getronics.com.

Education -1990

Mayapur Vedic College; Vedic Maths & Computer Science, 1987-90

Research assistant to Richard Thompson PhD, Cambridge, 1985, studying mathematical modelling and logic.

VWO Diplomas – Netherlands; (equivalent UK A-Levels)

DOB – 23 October 1969

Clean UK Drivers License

Recommendations

"Marcel is an engineer and systems architect of the highest calibre. He has a deep understanding of high availability servers and can communicate this in a clear way to other team members so that his proposals and reasoning are fully understood. The system Marcel helped us develop has stood the test of time well, scaling as required. When a new high availability system project was proposed, Marcel was the first person that we contacted to join the team."

Roger Lucas
Systems Consultant
Ubiquisys Ltd.

"Marcel brought his highly specialised and comprehensive expertise to our company in the areas of high availability and resilient/scalable servers, covering all aspects from business management down to engineering implementation. He is a pleasure to work with at any level and brings with him a professional and innovative approach, highly recommended to kick-start or troubleshoot your server business solution."

Richard Byrne
Engineering Manager and Founding Employee
Ubiquisys Limited

"Marcel is an exceptional talented professional. Apart from his mastery of technology he is an intuitive and original thinker. The combination makes him an asset for anyone needing very high level IT expertise. He is at his best when solving the unsolvable. Big challenges are his forte. He is a pleasure to work with and can work in teams, or on his own. His most distinguishing quality is the craftsman-like care and attention to detail he brings to any project."

Michael Geary PhD
Panchang Ltd.
Founder & CEO

"Marcel provided the backbone of our IT infrastructure for research and development and global communications. He is intuitive and provides innovative solutions best suited to the company needs going forward. This was demonstrated when our company relocated to a larger office space with minimal IT downtime and improved infrastructure as a result. I would recommend him as a great asset for any forward thinking, technology focused company."

Mark Williams
Founder & Director
Pulsic Limited

"For over two years, I've watched Marcel single-handedly sustaining a flow of constant complaints, urgent requests and unreasonable demands from me and my colleagues with equanimity, professionalism, utmost dedication and sheer competency and geekiness. A real computer wizard!"

Laurent Masse-Navet
Principle Engineer
Pulsic Ltd.

"Marcel is highly skilled and knowledgeable with computer networks and servers. He was

always helpful and responsive to requests, even whilst under considerable pressure; An asset to the team.”

Simon Witt
Project Manager
Pulsic Ltd.