

P. Motshegwa, B.ENG, M.A.Sc COMPUTER ENGINEERING

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PERSONAL DATA:

Surname	: Motshegwa	Nationality	: Motswana
First Names	: Pantanowitz	Date of Birth	: 6 th January 1979
Sex	: Male	Title	: Systems Administrator/Developer
Marital Status	: Married		
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PROFILE

Certified PHP Web developer, webmaster, masters in Electrical and Computer Engineering student, IT Service Management and HEAT administration and development. Also web based system development using LAMP (Linux, Apache, MySQL and PHP) and ASP & MS SQL Server, and user support, system Administrator, database administrator and developer (Microsoft SQL Server, MySQL and some Oracle 10g skills).

PROFESSIONAL CERTIFICATIONS

- PHP5 Certified Web Developer, June 2008

EDUCATION AND QUALIFICATIONS

Carleton University, Ottawa, Ontario, Canada

Masters of Applied Science in Electrical and Computer Engineering from the Department of Computer and Systems Engineering, Completed November, 2009

Research areas:

- Model-Driven Software Development
- Aspect-Oriented Software Development
- Model Driven Engineering and Aspect-Oriented Modeling.
- Model composition and Aspect Weaving.

University of Victoria, Victoria, BC, Canada

B.Eng Software Engineering (Electrical and Computer Engineering), September, 2004

University of Botswana, Gaborone, Botswana

BSc Science (Part I and II), August 1998 to April, 2000

Lobatse Senior Secondary School, Lobatse, Botswana

Cambridge O'levels, November 1996

PROFESSIONAL AND TECHNICAL SKILLS

I have working knowledge of the following:

- **Programming Languages:** PHP5, Java, ATL, C/C++, SQL, Perl, Python
- **Technologies & Framework or Methodologies:**
 - JSP, and servlets, .NET Frame work, Ruby on Rails, ITIL, PRINCE2, Symfony (PHP5 framework), Django (Python)
- **Applications**
 - ITIL implementations : HEAT, ITSM
 - CRM: Microsoft's CRM Dynamics, Vtiger CRM (open source)
 - *Development tools:* Eclipse, Zend Studio, Sun One Studio, Sun Java Studio Creator, Visual Studio
 - *Web Authoring:* Macromedia Dreamweaver.
 - *Office tools:* Office 2003/2007, Open office etc
 - *Accounting:* Pastel, Quickbooks
 - *Helpdesk/Service desk :* Request tracker, HEAT, ITSM

- *Security/Encryption:* UFW, TrueCrypt, F-secure etc
 - *SMS gateways:* Kannel
- **Servers:** Tomcat servlet engine, Apache web server, IIS, ftp server, Postfix, SendMail and Exchange mail servers.
- **Virtualization:** VMware, Virtual PC, and some Virtualbox
- **Report writing:** Crystal reports, SQL Server Reporting Services
- **Databases:** MySQL, PostgreSQL, IBM's DB2, Access, Oracle 10g, Microsoft SQL Server 2000/2005
- **Operating Systems:** Linux (SuSE, Mandrake, Red hat/Fedora, Ubuntu Server), UNIX (Solaris), Windows (2000/XP/Server 2003/Server 2008/VISTA/ Windows 7), Real time OS (QNX 4.25, MQX).
- **Hardware:** Working experience of PC and Server Hardware, networking devices, Micro PIC Controllers.

MAJOR PROJECTS INVOLVEMENT

- Design and development the Pula Saver – **BOTEC NDDA prize winner:** *The Pula Saver is a microcontroller based timer that can ensure that the ON and OFF times of electricity consuming appliances are managed.*
- Deployment of a Pastel Accounting System running on Oracle's VirtualBox virtual machine an Ubuntu Server host.
- Composition of Aspects represented as UML2 Sequence Diagrams.
- Deployment of the Bank of Botswana Incident management System.
- Implementation of an ITIL based Incident Management, and Configuration Management Systems using FrontRange's HEAT and ITSM (IT Service Management) for the government's Department of Information Technology (DIT).
- Implementation of University of Botswana's inventory management system.
- Implemented ICL's main and Customer Service websites using LAMP (Linux, Apache, MYSQL and PHP).
- Developed the following websites:
 - **TswanaSoft** (www.tswanasoft.com)
 - **24Seven Medical and Recruitment Services LTD** (www.24sevenmedicrecruit.com)
 - **Saint Mary's Primary School** (www.stmarysschoolbw.com)
 - **Etrade Botswana** (www.etradebw.com)
 - **Lethamo Academy** (www.lethamoacademy.com) [almost complete]
- Designed and developed web-based, database driven player registration system for a volleyball organization.
- Developed IFESS (In Flight Entertainment Service System), a software system to allow flight passenger to order food, watch movies and surf the internet from their seats using a touch screen.
- Implemented a chat server in Java as part of group project for our operating system course.

CAREER HISTORY

March 2010 – present	IT Systems Administrator/Developer, Botswana Harvard AIDS Institute Partnership <ul style="list-style-type: none"> • Developed an ACASI for conducting a clinic survey for one the studies • Administers in-house developed Data Management Information Systems • Maintaining servers (LINUX and Windows) for computer systems and services at BHP. • Learning Symphony and Django Software Development frameworks • Deployed Pastel Accounting software for the finance department • Managed a team of network technicians that provide user support • Etc
Jan 2010 – March 2010	Freelance Contractor, Job Seeker <ul style="list-style-type: none"> • Completed the Pula Saver and submitted the prototype to BOTEC's National Design For Development Awards competition
Jan 2008 – Nov 2009	<ul style="list-style-type: none"> • Masters Degree in Electrical and Computer Engineering, Carleton University, Ottawa, Canada. • Freelance Contractor. • LAMP and Joomla! developer
Jan 2006 – Sep 2007	ICL Botswana, Gaborone, Botswana <ul style="list-style-type: none"> • Deployed Bank of Botswana's Incident management System.

- Helped implemented of University of Botswana's inventory management system.
 - Implemented an IT service desk for the government's Department of Information Technology (DIT).
 - Completed ITIL Foundation course and Project management course.
 - Business Analysis training.
 - Customer Support.
 - In house web based system development (WAMP).
 - System integration.
 - ITSM, HEAT, and Crystal reports development.
- Nov 2004 – Nov 2005 Kalahari Associates, Gaborone, Botswana
- Completed a web-based, database driven player registration system for a volleyball organization,
 - Completed personalized patient booking system implemented in java .
 - Configured Linux servers and wireless networks.
 - Oracle 10g DBA and MSCE self study.
 - Visual .NET.
 - Developed a website with a content manager running on Linux for the company.
 - Server Operating systems installation, configuration and maintenance.
 - Network management.
 - Developed in house applications using Visual Basic and Access, Java, JDBC.
- May, 2004 - Sep, 2004 Adaptive Optics group, Victoria, BC, Canada.
Internship, Software developer
PROJECT: Real Time Operating Systems and Data communications
- Compared QNX (Real-time operating system) with the 2.6 Linux kernel.
 - Developed software to capture and analyze data from an adaptive optics system.
 - Developed a program to send data over the network using BSD sockets in C/C++.
- Sep, 2003 - Jan, 2004 Information Security and Object Technology (ISOT) research group, Victoria, BC, Canada.
Internship, research assistant, software developer
PROJECT: Interfacing Matlab engine.
- Researched on interfacing Matlab with a C/C++ and Java application.
 - Researched on invoking Matlab from a web application (a Java servlet).
 - Wrote documentation on how to call matlab from a user application.
- Jan, 2003 - May, 2003 Kalahari Associates, Gaborone, Botswana
Internship, Linux Developer
PROJECT: Linux Server Configuration & Linux for the Small Business:
- Installed and configured a mail server running on Red Hat 8.0 with a web mail client (Squirrel-Mail).
 - Installed and configured a DNS server (BIND 9).
 - Installed an apache web server.
- May, 2002 - Sep, 2002 ISOT research group, Victoria, BC, Canada.
Internship, Java developer
PROJECT: PrUDE (Precise UML Development Environment) Enhancement
- Improved the main GUI system of the PrUDE (Precise UML Development Environment) tool using the java swing package.
 - Improved the maintainability of the source code.