RJ White

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Profile

- systems, application and web software development
- scripting and rapid applications development
- UNIX/Linux systems-administration
- Computer room design/audits
- 5 years of senior-level management responsible for hiring/firing/budgeting
- Demonstrated adaptability from living and working several years in 5 different countries

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WORK EXPERIENCE

Moxad Enterprises Inc., Toronto - Canada   2003-now
Systems Integrator
Created Moxad Enterprises Inc. to do independent consulting.
Specializing in systems-integration, UNIX/Linux systems administration, software
development and computer room design and audits. Project work has included :
- implementing reverse-DNS for customers of large ISP
- computer-room audit of large services organization in the Medical industry
- 3-tier web-based access to product databases for wireless access company
- conversion of Oracle-based billing data to Verizon VZ450 standard for ISP
- diagnostic tools for call-centers for Canada's largest Cable Telco
- using Google calendar API in PHP for web-based booking system
- finding impairments in RF data from cable modems of customers of large ISP

Technologies used have included Oracle, mySQL, PostgreSQL, FreeBSD, Solaris, NetBSD,
Debian Linux, Python, Perl, PHP, Bash and HTML/CSS.

Gray and White, Toronto - Canada   2014-2015
co-founder/Chief Developer
Gray and White developed technologies that allowed remote sensing and triage of
battlefield injuries. This start-up company was the result of what was intended to be
a fun weekend for a friend and I at a Hack'n'Talk event. The sponsors of the event,
Canada's newest incubator Fashion Zone, at Ryerson University, liked our prototype
and picked us up to continue working on a design of detecting body-armor penetration
and relaying that info as well as other bio-metrics to field medics and Command-Control.
Languages used for the prototype were C for the Arduino micro-controller, Perl and
Python for the server back-end, and Javascript, HTML and CSS for front-end web-apps
and an Android app using the Cordova (Phonegap) framework.

Rogers Communications, Brampton - Canada   2009-2014
Systems Integrator
Wrote diagnostic software for customer devices (Cable-Modems (CM), SetTop Boxes
(STB) and Embedded Media Terminal Adapters (eMTA)) used by call-centers, Tier-2
level support, and technicians doing in-home service. Wrote web-services (XML/RPC,
SOAP, REST), called by my diagnostic tools and other parties. Tools written (and
web-services) are driven by config files for different behavior for different users
(departments/groups).
Software written in Perl on Linux systems.

Rogers Cable, Toronto - Canada   2004-2006
Manager, VoIP Technology
Manager of the VoIP Technology department responsible for design and deployment of the new Rogers Home Phone (RHP) product, utilizing Nortel soft-switches, Nuera media gateways and Arris/Scientific-Atlanta eMTA's.
Solutions included how to connect to MDU (Multi-Dwelling Unit) intercom systems and home security systems that require phone access.
Worked with vendors to improve echo-cancellation in their products.

GNAC, Inc - Toronto, Canada & Redwood City, California, USA   1999-2002
Director - Engineering
Co-founder of the Canadian branch of the company.
Director of Engineering for all company locations (RedWood City, Washington DC, Toronto).
The department included the UNIX, Windows, Security, Networking, and Data Architecture groups.
Very hands-on, which included writing code, systems administration and writing test-plans.
Technologies included Oracle, Solaris, Perl, C, HTML, and shell-scripting.

UUNET Canada - Toronto, Canada   1996-1999
Director - Internal Systems
Director of Internal Systems department spanning Toronto and Montreal. Part of the senior management team. Responsible for all aspects of running department (staffing, budgets, etc) including software development team and running of production UNIX systems for all of UUNET Canada. Responsible for CRM, Y2K and other projects.
Primary technologies were C, Perl and shell-scripting on Solaris and BSDi (Unix).

Network Infrastructure Specialist/Manager
Designed computer rooms for both manned and un-manned locations across Canada for UUNET to build a robust and reliable national network. Worked on room layouts, dealt with power (UPS, generator), HVAC, cabinet design and layouts, cabling, raised floors, cable-trays, and all other necessary infrastructure required for the operation of computer rooms.

European Bioinformatics Institute (EBI) - Cambridge, England   1994-1996
Senior Unix Systems Manager/Network Manager
Designed and set up the networking and computing environment at the EBI.
Dealt with architects, project managers, vendors, consultants, building contractors, engineers, etc. Dealt with all issues of design/setup including computer-room layouts, air-conditioning, network design, power, leak/fire detection systems, cabinet layout/purchase/wiring, etc. Ported/modified UNIX applications and systems software including most daemons to OSF/1 on new DEC Alpha architecture.
Technologies included C and shell-programming on UNIX (Ultrix and OSF/1).

European Molecular Biology Laboratory (EMBL) - Heidelberg, Germany   1993-1994
Senior Systems Manager/Programmer Analyst
Hired as UNIX Systems Manager for the department.
Began design of computing environment of the EBI (EMBL Outstation) to be built near Cambridge, England. Experimented with new more efficient methods of accessing genetic database sequences over the Net - some used at EBI for some time.
Technologies included C and shell-programming on UNIX.

University of Waterloo - Waterloo, Canada   1984-1990 and 1991-1993
    Senior UNIX Systems Programmer/Manager

    Responsible for maintaining UNIX on many DEC, Sun, IBM, Mips, SGI and Sequent machines. (BSD, Ultrix, SunOS, AIX, RISC/os, IRIX, Dynix). Duties included system generations, applying kernel fixes, maintaining news, UUCP, mail, etc. Rewrote most of B-news, UUCP drivers, security software, etc. Worked on network management, system monitoring and security applications.

    Primary languages used were C and shell (Bourne and C-shell) with some python and Tcl.

ETH (Eidgenössische Technische Hochschule) - Zürich, Switzerland   1990-1991
    Senior UNIX Systems Programmer/Manager

    Swiss Federal Institute of Technology. Responsible for maintaining UNIX on approximately a hundred Sun workstations and their servers. Duties included all software maintenance, backups, consulting, security and software updates. Wrote replacement software for passwd/chfn/chsh and a daemon to have a robust/secure alternative to Yellow Pages (NIS).

    Primary languages used were C and shell (Bourne and C-shell).

Mitel Corporation - Kanata, Canada   1982-1984
    Systems Programmer

    Wrote program for ONTYME mail to VAX mail transfer, monitoring programs for PABX's and PACX's, database conversions, and small applications on VAX/VMS.

    Primary language used was VAX assembler on VAX/VMS.

Leigh Instruments - Waterloo, Canada   1981-1982
    Systems Programmer

    Responsible for system generations and writing, modifying and supporting systems software. Wrote drivers, interrupt handlers, software tools, real time data collection software and inter-computer communications software for down-loading special file formats.

    Primary language used was Sperry/Univac assembler on Vortex Sperry/Univacs.

EDUCATION

Bachelor of Mathematics from University of Waterloo 1981

SKILLS

Platforms:	Linux, Unix
Languages:	Perl, Python, C, PHP, Javascript
Databases:	mySQL, Oracle, PostgreSQL
Web Technologies:	CSS, HTML, CGI
Web-Services:	XML/RPC, SOAP, REST