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Objective

Software Engineer position that touches on more than one part of the (full) stack, with a focus on back-end development.
Work with passionate people in an environment that is supportive of using the appropriate technology for the problem at hand.

Summary

- Driven individual who loves continuously learning and being challenged to implement innovative solutions.
- Experience in all stages of the software development life cycle.
- Have worked with a multitude of technologies in a wide range of industries.
- Language and platform agnostic with a preference for open source software, specifically Python in a Linux environment.

I relocated to Victoria, BC in January 2018, after taking off half a year to travel in South Africa and Namibia with my wife and two year old son.

Experience

Senior Software Engineer, SPAN Digital

Cape Town, South Africa — April 2015 - June 2017

Duties included: senior engineer, team lead, technical lead, backend developer, frontend developer, automated testing, automated performance measuring, automated deployment, quality assurance, systems administration, scoping of projects for costing purposes, code reviews and mentoring junior engineers.

Projects of note included:

- maintenance, decommissioning and migration of Beats Music to Apple Music.
- implementation of HBO Samsung Tizen App for BAMTech Media.
- automated load testing of an existing web application to establish failover point and recommend solutions for improved availability.
- design, implementation and documentation of a RESTful API with caching and queueing infrastructure for an existing web application.

Collaborated with colleagues and worked effectively with customers, managers and technicians split over several time zones in several countries.

Technology summary: Python, Flask, Node.js, Couchbase, JavaScript ES6, React, Redux, HTML, Ansible, Kafka, MySQL, Redis, Linux, AWS (EC2, Elastic Beanstalk, S3, RDS, ElastiCache), Swagger, Jenkins, Git.

Methodology summary: Agile, continuous integration, automated deployment

Senior Developer / OSS Developer, MWEB

Cape Town, South Africa — June 2013 - Feb 2015

Duties included: senior developer, team lead, technical lead, backend developer, frontend developer, automated testing, code reviews, mentoring junior engineers and user support.

I was the lead engineer responsible for the initial design, implementation, deployment and operation of a proof of concept captive portal. I had to work closely with network engineers, third party hardware vendors, architects, engineers and other stakeholders to rapidly design, implement and deploy a working prototype on a very tight schedule. I also assisted with monitoring usage, identifying usage trends and modifying the system in accordance with findings.

After the successful deployment of the proof of concept mentioned above I was tasked with the design and implementation of a system required for the subsequent full scale national rollout. This system consisted of a planning, deployment, monitoring and management interface for site project management and network technicians.

Technology summary: Python, Django, MySQL, RabbitMQ, Celery, Ruckus Wireless Inc. ZoneDirector and SmartCell Gateway, C#, NUnit, MSSQL, REST, Android, Java, J2EE, Linux.

Methodology summary: Agile, Scrum, Kanban, continuous integration, mobile first.

Senior Developer, QES subcontracted to MWEB

Cape Town, South Africa — February 2011 - May 2013

Duties included: senior developer, frontend developer, backend developer, code reviews and server administration.

Projects of note included:

- cloud storage application.
- setup and administration of Linux development environment.
- web based email application.

Technology summary: Python, Ubuntu Linux, Suse Linux, Rackspace Openstack Swift, MySql, C#, MVC, HTML, JavaScript, YUI, Selenium, XPath, REST, automated deployment using Fabric scripts, Node.js.

Methodology summary: Agile, Scrum, continuous integration, mobile first

Senior Developer, Orderwise

Johannesburg, South Africa — March 2010 - November 2010

Specification and implementation of prescription management GUI for medical practitioners using C#, WPF, multithreading, windows services.

Senior Developer, Pure Technologies

Calgary, Canada — August 2009 - January 2010

Back and front-end development of bespoke signal analysis desktop applications using C#.NET, WPF, multithreading. Rudimentary GIS using Google Earth.

Student, University of South Africa

South Africa — March 2008 - July 2009

Full time correspondence student at the University of South Africa working towards a Bachelor in Computer Science.

Senior Developer & Team Leader, Bathabile

Centurion, South Africa — January 2006 - March 2008

Backend and frontend developer, consultant and team lead on various projects relating to medical aid industry.

Technology summary: TCP/IP, J2SE, J2EE, JNI, XML, XSD, Oracle 10g, Oracle 9i, MSVC C++, C#.NET, Windows API, C (embedded), Telium SDK, Linux, Windows server, Solaris.

Senior Developer, J.M.R. Motswedi

Johannesburg, South Africa — October 2005 - January 2006

Subcontracted to Accenture to work on various backend communication components in the Johannesburg Stock Exchange trading infrastructure.

Technology summary: C#.NET, J2EE (Web services), MSSQL, IBMMQ, MSMQ, BizTalk, COM.

Senior Developer, Sensetel

Pretoria, South Africa — July 2005 - October 2005

Backend development on internet banking system. Frontend development for South African National Roads Agency vehicle identification pilot project. Assisted with completion of server frontend application for Air Traffic & Navigation Services.

Technology summary: C#, NUnit, MSSQL, PHP, Borland C++.

Senior Developer, Scope Logistical Technologies

Johannesburg, South Africa — June 2002 - June 2005

Lead programmer on web based map interface using SVG.

Team lead, architecture, prototyping & design of vehicle tracking and logistics system.

Integration with proprietary hardware.

Vehicle tracking front end, integration with various map engines.

Maintenance of various legacy systems.

Technology summary: C#, J2SE, C++ (Borland,MSVC), Delphi, VB6, XML, XSD, Hibernate, COM, JNI, MSSQL, MSMQ, GSM modem integration, SMPP integration, MapInfo MapX, Microsoft MapPoint, ESRI MapObjects LT, ESRI MapObjects 2.1. Using COM with Delphi.

Developer & Team Leader, First Technology Pty Ltd

Midrand, South Africa — May 1999 - June 2002

Junior & senior programmer and team leader of several B2B & B2C web-based e-commerce web products.

Technology summary: C++ (ISAPI, GCC), JavaScript and DHTML, XML, XSL, Linux, Windows Server, ASP, VBScript.

Junior Web Developer, Cinergy WebCraft

Pretoria, South Africa — 1998 - 1999

Dynamic content for web sites using ISAPI with C++ & DHTML.

Education

University of South Africa

Bachelor of Science (Computer Science) — 2004 - 2013

References

Available upon request.