

Michael Clyde Hall

C#.NET SENIOR DEVELOPER

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Profile

- *Have over 7 years of industry experience.*
- *I excel at learning programming concepts quickly, and adopting the recommended practices soon.*
- *I adapt to new technologies and try the betas of upcoming releases. I have taught myself new skills when necessary.*
- *I am most skilled at working in the .NET environment and the C# language. I have had exposure to other languages though.*
- *I have no problems working within a group. Although I am a quiet person, I still contribute to discussions and make observations.*
- *I have little problem doing presentations and demos. If I have properly prepared, then I have little difficulties in presenting it. I have also conducted remote assistance with overseas clients.*
- *I have no problem completing research. I can complete research, analysis and design before coding, but I prefer a development model that favours rapid development. I also prefer prototyping.*
- *I'm a very quick developer, having earned a reputation of both quickly fixing bugs and finishing requirements.*
- *I'm a self-starter, working on ways to improve the system when no assigned tasks are given. This can be done by code inspection to find potential performance improvements, or use of tools like SQL profiler or self-written tools like memory leak detectors.*
- *I have a keen eye for details. Finding and fixing bugs missed by others.*

Education

Nelson Mandela Metropolitan University, Port Elizabeth

Bachelor of Technology: Information Technology (Cum Laude) (Technical Applications)

National Diploma: Information Technology (Cum Laude) (Technical Applications)

Skills

Skill	Competency	Years
C# (.NET 4.5.2)	Extensive	7
Windows Presentation Foundation (WPF) and XAML	Extensive	7
Windows 8 Universal Store Apps	Extensive	2
Windows Forms	Extensive	5
Windows Communication Foundation (WCF) SOAP and REST services	Extensive	5
Microsoft SQL Server 2014 & T-SQL	Extensive	7
ORM Tools (SQLite, Entity Framework, Dapper)	Extensive	7
Javascript & jQuery	Extensive	4
ASP.NET MVC 5	Extensive	3
.NET Web Services	Extensive	7
Microsoft Visual Studio 2013	Extensive	7
Internet Information Services (IIS) 8.5	Extensive	7
Source Control (Subversion, GIT)	Extensive	7
CLR Profiler	Extensive	4
VMware	Extensive	4
Memory leak detection	Extensive	3
SCRUM development	Extensive	6
Unit testing	Extensive	5
HTML 5 with Bootstrap 3, CSS3, LESS	Solid	3
Microsoft Azure	Solid	1

Other:

Google Maps JavaScript API v3, Open Street Maps API, Computer Vision (OpenCV), FinalBuilder 7, Advanced Installer 8

Previous Work

Property24 (2015 - Current)

- www.property24.com
- Permanent position, cost to company –R46 340.00 per month
- Senior Software Engineer

Korbitec (Pty) Ltd. (2008 - 2015)

- www.korbitec.com
- Senior Software Engineer

Nelson Mandela Metropolitan University (2007)

- www.nmmu.ac.za
- Contract work, 1 year period
- Research Assistant for Johan van Niekerk

Work Experience

Property24 Special Projects – Property24 (2014 - Current)

- <http://www.property24.com>
- South African property portal
- Responsibilities were to work on projects out of scope of Property24 team. Worked on a tool to group property listings, a Property24 Windows 8 Universal App (for Windows Phone and Windows 8), a REST version of the Property24 web service, creating an email relay system, code to determine image quality, and invisible watermarking.
- Worked alone reporting to the Chief Technical Officer.

LeadDirector – Korbitec (2013 - 2015)

- Website used to manage home loan application leads from Property24. Information from leads was sent to multiple external web services in order to score the leads. WCF web service called by clients to retrieve data.
- Worked alone, reporting to interested stakeholders.

Domofond – Korbitec (2013 – 2014)

- <http://www.domofond.ru/>
- Russian version of South Africa's Property24.com, a property portal.
- Responsibilities were to assist with development on the portal website (viewed by potential property buyers), admin website (used by agents to manage listings), mobile website (mobile version of portal website) and a

WCF web service to be consumed by Android/iPad applications.

- Worked in a team that varied in number over the projects course.
- Websites and database hosted on Microsoft Azure cloud platform

Korbitec Library – Korbitec (2013 - Current)

- Internal project with shared code used throughout Korbitec
- Given write access to library
- Notable mentions:
 - Numerous bug fixes
 - Increased performance of database DAL code

PropCtrl Mobile - Korbitec (2012 - 2013)

- C# ASP.NET MVC mobile application to capture contact and property information on a mobile web site. Not released, mainly used for testing the web service.
- Worked alone, but reported to stakeholders. There were separate projects for iPhone and Android tablets that consumed the web service created in PropCtrl.

PropCtrl – Korbitec (2010 - 2013)

- <http://takethelead.propctrl.com/>
- C# application for capturing property information by estate agents, and uploading listing to Property24, and other listing portals.
- Client uses a WinForms application that interacts with WCF web service on the server-side. Web service interacts with a SQL Server database.
- Worked in a team that varied in number over the projects course.
- Responsibilities were mainly to assist in development of the product. Was moved to reporting section of project for a while to help improve reporting experience.
- Notable mentions include:
 - Improving the existing security model.
 - Writing a tool to detected memory leaks.
 - Writing a C# wrapper for running Google Maps in a WinForms project.
 - Implementing web service monitoring, which logged web service usage to PerfMon.
 - Implementing server-side and client-side caching systems to save on database and web service calls.

- Implementing a “pending changes” system that only wrote changes to a database table if the data was altered.
- Responsible for improvement to reporting system – including customization of report data, and only fetching the minimum data required.
- Halving the full project build time
- Being responsible for the web service consumed by the mobile development team (web service consumed by Mono project).

Legacy Data Transfer – Korbitec (2010)

- Internal project to transfer data from legacy bug capturing system to newer system.
- Data transferred from IMS database to SQL Server database via C# application (allowed for selective importing).
- Another bug capturing system was chosen. Project was given to another developer to tweak for transfer to new system.

Korbitec Billboard – Korbitec (2009 - 2010)

- Internal C# project that displayed the statistics of the company using WPF on a billboard screen.
- Worked alone, but reported to stakeholders.
- Responsibilities were the updating of the old billboard to utilize newer eye-catching technology.

Automated Civil Litigation 3 – Korbitec (2008 - 2010)

- <http://www.korbitec.ca>
- C# application that automates the process of generating court documents.
- Client uses a WinForms application that interacts with a local SQL Server database.
- Project has Canadian clients.
- Worked in a team that varied in number over the projects course.
- Responsibilities were to assist in the development the product, and provide support and assistance to the Canadian office.
- Notable mentions include:
 - Working on system to auto-generate dialogs.
 - Working with internally created document generation systems, GhostDraft and GhostFill.

University Projects

ScriptBots.NET – NMMU (2007)

- A C# programming game that allowed programmers to change code that controlled an AI player in real time.
- This was made possible by CodeDom and reflection.
- The project used a 3D graphics engine (Irrlicht.NET).
- Worked alone.
- Entered into Microsoft Project Firefly 2007 (Software design category)

Robotics Project 2006 – NMMU (2006)

- A C# WPF user interface to interact with a robotic car.
- Used beta technology at the time (WPF).
- Was responsible for the user interface itself.
- Worked in a team of 3 people.
- Entered into Microsoft Project Firefly 2006 (Software design category)

Notable Sideline Projects

DumbBots.NET – Sideline project (2012)

- <http://dumbbotsnet.codeplex.com>
- An open source re-release of BTech project, *ScriptBots.NET*.
- Improved with four years of extra experience, achieved goals previously dropped for scope reasons.
- Featured on the *Coding4Fun* blog (9 May 2012).
- Chosen as a pick of the week on "*This Week on Channel 9*" (18 May 2012).

TubeStar – Sideline project (2013 - 2014)

- <http://tubestar.azurewebsites.net>
- An open source game that simulates running a YouTube channel.
- Silverlight, WPF and Windows 8 Store versions
- Over 200,000 downloads. Translated into 14 Languages. Website allows users to submit translations.
- Website and database hosted on Microsoft Azure cloud platform.

Achievements

- Merit award for academic excellence (2004)
- Merit award for academic excellence (2005)
- Merit award for academic excellence (2006)
- Merit award for distinction in project (2006)
- National Finalist in Microsoft Project Firefly Cup, Software Design category (2006)
- Diploma received Cum Laude (2006)
- Merit award for distinction in project (2007)
- National Finalist in Microsoft Project Firefly Cup, Software Design category (2007)
- Bachelors degree received Cum Laude (2007)
- Sideline project, DumbBots.NET, chosen as pick of the week on "This Week on Channel 9" (2012)

Personal

<i>Date of birth</i>	10 September 1984
<i>EE/AA Status</i>	White Male
<i>Nationality</i>	South African
<i>Marital Status</i>	Single
<i>Driving License</i>	South African, Code: B, Vehicle Restrictions: 0
<i>Hobbies and Interests</i>	Drawing and art Dancing History Reading PC gaming