

# Michael Clyde Hall

*C#.NET SENIOR DEVELOPER*

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## Profile

- Over 8 years of industry experience.
- I adapt to new technologies, I have taught myself new skills when necessary or out of interest.
- I am most skilled at working in the .NET environment and the C# language.
- I have exposure to other languages, notably Visual C++.
- I have no problems working within a group, I contribute to discussions, make observations, and do code reviews.
- I have little problem doing presentations and demos. I have also conducted remote assistance with overseas clients.
- I prefer a development model that favours rapid development.
- Experience in creating a system from a technical specification or research paper.
- I'm a very quick developer, having earned a reputation for finishing requirements beyond estimation.
- I'm a self-starter, working on ways to improve or refactor the system when time permits.
- I have a keen eye for details, finding and fixing bugs obscure bugs.

## 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
General		
C# .NET	Extensive	8
Visual C++	Experience	2
Microsoft SQL Server & T-SQL	Extensive	8
Microsoft Visual Studio	Extensive	8
ORM Tools (SQLite, Entity Framework, Dapper)	Extensive	8
Source Control (Subversion, GIT)	Extensive	8
Profiling and Memory Leak Detection	Extensive	5
Unit testing	Extensive	6
SCRUM development	Extensive	8
Web Development		
ASP.NET MVC	Extensive	4
HTML 5 with Bootstrap, CSS, LESS	Solid	4
Javascript & jQuery	Extensive	5
.NET Web Services and Windows Communication Foundation (WCF) SOAP and REST services	Extensive	8
Internet Information Services (IIS)	Extensive	8
Microsoft Azure	Experience	1
Desktop Development		
Windows Presentation Foundation (WPF) and XAML	Extensive	7
Windows 8 Universal Store Apps	Extensive	2
Windows Forms	Extensive	4
Other		
FinalBuilder, Advanced Installer, Computer Vision (OpenCV)		

## Previous Work

### Property24 (2015 - Current)

- [www.property24.com](http://www.property24.com)
- Permanent position, cost to company –R46 340.00 per month
- Senior Software Engineer

### Korbitec (Pty) Ltd. (2008 - 2015)

- [www.korbitec.com](http://www.korbitec.com)
- Senior Software Engineer

### Nelson Mandela Metropolitan University (2007)

- [www.nmmu.ac.za](http://www.nmmu.ac.za)
- Contract work, 1 year period
- Research Assistant for Johan van Niekerk

## Work Experience

### Property24 - Property24 (2014 - Current)

- <http://www.property24.com>
- South African property portal
- Initial responsibilities were to work alone on projects out of scope of Property24 team, which include a tool to group similar property listings, a Property24 Windows 8 Universal App and migrating to Bootstrap 3. Also various prototypes were developed and demonstrated to interested stakeholders, like a recommendation system. Later integrated into Property24 team where responsibilities were to assist in development and maintenance of new features.

### 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.
- Put on small project of two people early with responsibilities to modify code base from Property24 portal to serve as skeleton for new Domofond portal. Major differences between Russian and South African

property markets meant a whole new system was required with a high pressure deadline of a few months. Finished site as required and continued with maintainance efforts until team size increased for new features.

- Websites and database hosted on Microsoft Azure cloud platform

### 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.
- 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.
  - Being responsible for the web service consumed by the mobile development team (web service consumed by Mono project).

### 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.
- Responsibilities were to assist in the development the product, and provide support and assistance to the Canadian office.

## 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

### Cosmic Leap - Sideline project (2015 - 2016)

- <http://mikehall.co.za/cosmicleap/>
- A game about jumping from planet to planet, avoiding obstacles
- Written in C# using Unity 5 Engine
- Voted to appear on Steam online game store via Steam Greenlight.

### TubeStar - Sideline project (2013 - 2014)

- <http://tubestar.codeplex.com/>
- An open source game that simulates running a YouTube channel.
- Silverlight, WPF and Windows 8 Store versions

- Over 500,000 downloads. Translated into 14 Languages. Website allows users to submit translations.
- Website and database were once hosted on Microsoft Azure cloud platform.

### 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).

## Achievements

- Merit award for academic excellence (2004)
- Merit award for academic excellence (2005)
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- 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

