

# Michael Hall

SOFTWARE DEVELOPER

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## Profile

- Over 10 years of industry experience.
- I'm a quick developer. I've earned a reputation for finishing requirements rapidly and have been entrusted with doing time critical work.
- I have an eye for details, finding and fixing obscure bugs
- 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.
- Experience in creating a system from a technical specification or research paper.
- I'm a self-starter, working on ways to improve or refactor the system when time permits.

## 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
<b>General</b>		
C# .NET	Extensive	11
Visual C++	Experience	2
Microsoft SQL Server & T-SQL	Extensive	10
MongoDB	Extensive	2
Microsoft Visual Studio	Extensive	11
ORM Tools (SQLite, Entity Framework, Dapper)	Extensive	10
Source Control (Subversion, GIT, TFS)	Extensive	11
Profiling and Memory Leak Detection	Extensive	7
Unit testing	Extensive	6
SCRUM development	Extensive	11
Messaging (RabbitMQ, Service Broker)	Extensive	2
<b>Web Development</b>		
ASP.NET MVC	Extensive	5
HTML 5 with Bootstrap, CSS, LESS	Solid	5
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
<b>Desktop Development</b>		
Windows Presentation Foundation (WPF) and XAML	Extensive	7
Windows 8 Universal Store Apps	Extensive	2
Windows Forms	Extensive	4
<b>Other</b>		
FinalBuilder, Advanced Installer, Computer Vision (OpenCV), Roslyn Code Analysis, Akka.NET		

## Previous

Digital Outsource Services (*Dec 2016 - Current*)

- <http://digioutsource.com/>

## Work

- Senior Software Engineer to Lead Developer
- Property24 *(Jul 2015 - Nov 2016)*
- [www.property24.com](http://www.property24.com)
  - Senior Software Engineer

### Korbitec (Pty) Ltd. *(Jan 2008 - Jun 2015)*

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

### Platforms - Digital Outsource Services *(2016 - Current)*

- <http://digioutsource.com/>
- Back end system for online casino
- Technology: C#, MongoDB, RabbitMQ, SQL Server, AKKA.NET
- Worked on backend system which used Complex Event Processing to react to player experience in a casino. Responsibilities included developing the backend application, doing code reviews and provided standby assistance as well. Also assisted with BI development in data migration.
- As Lead Developer, responsible for designing and implementing rewrite of system as well as investigating and implementing new technology like Kafka and Kubernetes.

### Property24 - Property24 *(2014 - 2016)*

- <http://www.property24.com>
- South African property portal
- Technology: C#, SQL Server, ASP.NET MVC, Windows 8 Universal App, Bootstrap, JQuery
- 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. Later integrated into Property24 team where responsibilities were to assist in development and maintenance of new features.

### Domofond - Korbitec *(2013 - 2014)*

- <http://www.domofond.ru/>
- Russian version of South Africa's Property24.com, a property portal.
- Technology: C#, Microsoft Azure, SQL Server, ASP.NET MVC
- Put in small team with responsibilities to create base for new Domofond portal based on Property24 code. 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 maintenance efforts until team size increased for new features.

### PropCtrl – Korbitec (2010 - 2013)

- <http://takethelead.propctrl.com/>
- Application for capturing property information by estate agents, and uploading listing to Property24, and other property portals.
- Technology: C#, Windows Forms, WCF, SQL Server
- Responsibilities were mainly to assist in development of the product. Was moved to reporting branch of project, where I helped improve reporting experience and performance greatly. I also interacted with PropCtrl Mobile developers in providing a WCF web service that was used by the client apps. Prototyped an improved security system which was implemented. Also wrote tools to detect memory leaks.

### Automated Civil Litigation 3 – Korbitec (2008 - 2010)

- <http://www.korbitec.ca>
- C# application that automates the process of generating court documents.
- Technology: C#, Windows Forms, SQL Server
- 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

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

- <http://mikehall.co.za/cosmicleap/>

## Sideline Projects

- 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 - 2016)

- <http://tubestar.codeplex.com/>
- A game that simulates running a YouTube channel.
- Available for Windows desktop and Android devices
- Over 750,000 downloads. Translated into 14 Languages. Website allows users to submit translations.

### 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).

## Awards

- Merit award for academic excellence (2004)
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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)
- Bachelor's degree received Cum Laude (2007)
- Sideline project, DumbBots.NET, chosen as pick of the week on “*This Week on Channel 9*” (2012)
- Winner Digital Outsource Services Data Science competition for OCR (2018)
- “*The Problem Solver*” – Awarded to the individual that finds those sneaky bugs and errors in logic (2018)

## 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

*Driving License*

South African, Code: B, Vehicle  
Restrictions: 0