Robert McCorkell

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Education

University of Exeter, Exeter, UK   10/2009 – 06/2013

- MSc in Physics with one year studying in New Zealand and predicted grade of 1st.
- Master's thesis involves specialization in condensed matter physics focusing on the super-material Graphene.
- Currently co-developing a spray-on version of the recently developed material GraphExeter developed at Exeter University for application directly to fabrics and glass.
- GraphExeter could potentially revolutionise the creation of wearable electronic devices (http://www.bbc.co.uk/news/uk-england-18302843).

University of Auckland, Auckland, New Zealand   07/2011 – 06/2012

- One year exchange programme involving living and studying in Auckland, New Zealand.
- Took elective classes in computer science learning Java programming, software engineering (object-oriented software development in java) and music technology.
- Attended two Windows Phone Student Camps that involve building games and applications for the Windows Phone platform using C#, Microsoft Visual Studio and Expression Blend tools and the XNA and Silverlight frameworks.

A-levels   10/2007 – 06/2009

A-levels in Physics, Mathematics and ICT achieving grades A,B and B respectively.

Employment

Present Thinking Limited - Director   12/2011 - Present

- Director at Present Thinking Ltd, a web development and consultancy start-up that builds products ranging from web sites to custom content management systems and recently starting mobile application development.
- Introduced multiple new product ideas when joining, one of which we have made a development priority.
- Whilst splitting time between Present Thinking and university studies, I am currently designing a new front-end website for the company and its next product, and will continue to work on design and application development for future projects.

Decibel Music Systems Ltd – Software Development Intern   07/2012 – 09/2012

- Refactored and cleaned a top-level internal application for managing a large database. Added features to detect which user was last logged in to the system from a machine, and the ability to save a 'favourite artist' for each user for quick access when testing the system.
- Developed an application using C# and WPF to manage a large Microsoft SQL Server database of images using LINQ to SQL. Users gained the ability to view, edit and export images in the database along with their related data.
- Developed tools to identify similar images in the database using open source versions of perceptual hash, and SURF libraries. Also developed tools for identifying CD or Vinyl images using

AForge.NET image processing libraries.

> *"Over the last few months, he has performed his duties as a Software Developer admirably with output that has consistently exceeded our expectations.*
> *He would be a perfect hire for a technology or consultancy business looking for a smart, dedicated and engaging graduate to join their team."*
> Gregory Kris, CEO. (Full letter can be found at http://www.robbiemccorkell.com/decibel-reference/)

Freelance Web Design   **2008**
- Taught myself HTML, CSS and Adobe Photoshop whilst in Secondary School.
- Designed two websites for Present Thinking Ltd in 2008; an online store for a skiwear company called Mountain Edge Ski Wear, and the homepage for the local Rotary Club charity was built for free.
- Both sites were designed, built, tested and formally handed over in within a tight timescale of a few weeks.

Renault F1 Team – 1 Week Work Experience   **05/2006**
- A one-week placement at what was formerly the Renault F1 team based in Enstone, UK (now Lotus Renault GP).
- Assembled an air pressure sensor array for the wind tunnel testing car, surprising my supervisor with the amount completed in the given time.
- Built various parts to be tested in the wind tunnel from scratch using carbon fibre.

Skills

Technical Skills:
- C# and WPF - strong experience through my work at Decibel Music Systems Ltd.
- Java programming - knowledge from two classes at Auckland University, and self taught Android development.
- HTML and CSS – working knowledge and originally self-taught in early teens.
- LaTeX and MATLAB – used in my physics research project.
- Microsoft Office including use of Microsoft Access in ICT A-level.
- Adobe Photoshop – Self-taught through web design.
- Microsoft Windows and Apple Mac OSX - extensive experience through personal and professional use.
- Linux – basic experience Ubuntu and Debian through personal use.
- Extensive knowledge of computer hardware from designing and building computers for personal use.
- Currently learning additional web design principles and objective-C for iOS development from books and using a subscription to teamtreehouse.com in my spare time.

Transferable Skills:
- Time management and self-motivation shown by my work on web design.
- Learning agility, problem solving, and lab experience shown by my degree in physics.
- Willingness to step out of my comfort zone shown by my exchange year in New Zealand.
- Academic achievement shown by my A-level and University results.
- Professional business experience from my time working at Decibel Music Systems.

Interests

I am a great fan of all things digital. After teaching myself HTML and CSS at 13 in my spare time, I also designed and built a home theatre PC in my mid-teens for my family to store pictures, music and video, and record live television. I subsequently revised my design to make it smaller, faster and quieter. Today I focus more on programming, my primary interest being in mobile application development for Android, iOS and Windows Phone. On the hardware side I currently experiment with a Raspberry Pi and Debian Linux.

I am also a keen runner and musician. I take part in competitive 10K races, and have completed a half-marathon. I also play guitar and lead a band whilst in Exeter, playing in pubs and clubs around the city.

Referees

Gregory Kris
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