Martin John Carolan

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Work Experience

Current, from December 2012

Data Engineer
Mind Candy

- We provide shared services capture data and provide tight integration across all our games. We make an eventing system, which captures and analyses over 20 million events every day, and an A/B Testing system, which helps us to optimise the features of our games. We also make an identity system, allowing users to have a common identity across multiple products, platforms, and authentication methods, and a notification system which allows the business to send notifications in bulk to specific cohorts across all of our systems. Almost all of our systems are made with Scala, and we are heavy users of Amazon AWS.

- I joined Mind Candy as an engineer on the Payments team, who are responsible for integrating Moshi Monsters with external Payment, Subscriptions, and Game Time Card providers. There are 100's of thousands of actively paying subscribers, which our systems manage.

- When I joined the Payments team, the system consisted of one collosal project which was proving to be a bottleneck. As new work came in we managed to slice the backend system in to a few smaller, more cohesive, Scala projects and migrated our frontend on to a new company wide web platform which uses Node.js.

July 2010 – December 2012

Associate Software Engineer
Morgan Stanley, London

- My role primairily focused on development of a real-time bidding/analytics system, in which I conducted both middle-tier (Java/C++) development, and User Interface (C#/WPF, HTML5/Ext JS4) development.

- I joined through the intensive Morgan Stanley Technology Analyst Programme - receiving comprehensive 15 week training on Unix, C++, Java, C#, RDBMS systems, web development, Perl and Python along with presentation skills, project management and other professional development training.

- I also undertake support development on systems/models written in a variety of languages (C++, Perl, Java, C#), to ensure our trading desk have all the tools needed to operate successfully.

2008

Analyst Software Engineer
Morgan Stanley, London

- On this internship I worked within the Securitised Products Group at Morgan Stanley, rewriting a legacy client-facing investor report web portal in ASP.NET/C#.

- I also worked on a House Price Information indexer written in Java, and provided the infrastructure surrounding a new County Court Judgement feed for use in analytical models. All 3 projects are still in production and have active users.

Education

2010	**Bachelor of Science**	First Class with Honours Computer Science *University of Durham*
2007	**'A' Level**	History: A, Biology: B, ICT: B *Fallibroome High School*
2005	**GCSE**	7 A's (incl. English, Maths, Double Science), 3 B's. *Fallibroome High School*

Awards

2009	**Scott Logic Award first prize**	*Univerity of Durham*
2008	**Morgan Stanley prize for academic excellence**	*Univerity of Durham*
2007	**BCS prize for academic achievement**	*University of Durham*

Skills

- ★★★★★ Scala, Java, Akka, Play
- ★★★★☆ C#, Python, JavaScript
- ★★★☆☆ C++, HTML/CSS

Outside of the office I

- Am an avid runner, having completed 3 full marathons and 8 half marathons.

- Teach programming at a local primary school on a voluntary basis (using Scratch and Python).

- Always have a personal programming or electronics project on the go, ask me about the latest!