


# Martin Carolan

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## Commercial Experience



**JULY 2017 - PRESENT**

**Director & Consultant - Type Systems, Brighton**


- Underscore Consulting LLP
  - Scala development on multiple projects
- HMRC
  - Team leadership and Scala development



**JUNE 2014 - JULY 2017**

**Senior Software Engineer - ITV, London**

- Lead developer on the Content Delivery team, who are responsible for building a commercially enticing pipeline to get ITV's media/metadata to the right place, at the right time, in the correct format.
- The system is powered by a collection of Scala micro-services, which primarily communicate by asynchronous messaging (with RabbitMQ).
- Experience with managing production services on a hybrid platform, primarily based in Amazon AWS, with integration between COTS on-premise systems for media archival and processing.
- I promote use of functional programming principles wherever possible, and am an advocate of the TypeLevel stack.
- Line management of 3 developers and a developer in test. Experience in recruitment and leadership of cross-functional teams.
- Helped the team to build and open-source [Bucky](#), an AMQP library written in Scala.



**DECEMBER 2012 - JUNE 2014**

**Software Engineer - Mind Candy, London**

- Built shared services to capture data, enabling insight and integration across all Mind Candy games. Helped to build:
  - an eventing system to capture and interpret millions of events every day
  - an A/B Testing system, which helped optimise the features of Mind Candy games
  - an identity system, allowing users to have a common experience across multiple products, platforms and authentication methods
  - a notification system which allowed the business to send notifications in bulk to users with specific characteristics

All of our systems were built with Scala, and we were heavy users of Amazon AWS.

**Morgan Stanley**

**JULY 2010 - DECEMBER 2012**

**Associate Software Engineer - Morgan Stanley, London**

- My role primarily focused on the development of a real-time bidding/analytics system, in which I conducted both back-end (Java/C++) development, and front-end (C#/WPF, HTML5/Ext JS4) development.
- I joined through the intensive Morgan Stanley Technology Analyst Programme. We received comprehensive 15 week training on Unix, C++, Java, C#, relational database systems, web development, Perl and Python along with presentation skills, project management and other professional development training.
- I also undertook support development on systems/models written in a variety of languages (C++, Perl, Java, C#), to ensure our trading desks had all the tools needed to operate successfully.

**Morgan Stanley**

**SUMMER 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#.

## Education

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

## Conference Talks

- [flatMappy bird: functional flappy bird](#)**  
2016 An overview of functional reactive programming, in particular Coroutines.  
*Scala eXchange*