Martin Carolan

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Commercial Experience

JUNE 2014 - JULY 2017

Senior Software Engineer
ITV, London

- Lead developer on the Content Delivery team, who are responsible for building a commericially 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.
- I joined Mind Candy as a Software Engineer on the Payments team, who were responsible for integrating Moshi Monsters with external Payment, Subscriptions, and Game Time Card providers.
- When I joined the Payments team, the architecture consisted of a monolith which was proving to be a bottleneck. As new work came in we managed to slice the backend system into a few smaller, more cohesive, Scala micro-services and migrated our frontend on to a new company wide web platform which used Node.js.

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.

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#
- 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.

Education

2010 — BSc Computer Science
FIRST CLASS WITH HONOURS
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

Conference Talks

2016 — flatMappy bird: functional flappy bird
AN OVERVIEW OF FUNCTIONAL REACTIVE PROGRAMMING, IN PARTICULAR COROUTINES.
Scala eXchange

Awards

2009 — Scott Logic Award first prize
University of Durham

2008 — Morgan Stanley prize
University of Durham

2007 — BCS prize for academic achievement
University of Durham