Jonathan Bates

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MSc (distinction) in Advanced Computing Science

# Employment Details

Oct 2005-Jan2013 – Analyst Developer, ILLY Computer Systems Ltd, London

Responsibilities

* Designing and developing a market-leading drug-rehabilitation application, with each instance storing typically 10GB data, and supporting up to 1000 concurrent users, whilst maintaining performance
* Application Development using **C#**, **Monorail** (a .Net MVC web framework), **NHibernate 3**, **Linq**, **SOA** (using **NServiceBus** & **MSMQ**), **MS SQL Server**, **Resharper, NUnit, Windsor** (IoC framework), **Git, jQuery**, **Knockout, CSS**
* Designing client-side & server-side frameworks to be used by other developers
* Involved in reconciling customer requirements with complex business logic from government-mandated requirements
* Converting a monolithic web application into an **SOA**-based distributed architecture
* Deputy manager of development pool (6 developers in total)
* Public-facing project lead for other projects, including new and existing systems
* Variously managing full development lifecycle, from capturing client requirements, development, management of additional programming & testing resources and managing the release process. This work required close coordination with the clients, the business-development team and support team
* Managed IT strategy & hardware/software infrastructure, including networking, virtualisation, server/SAN specification. I later trained a support manager so that I can concentrate on my core role

Achievements

* Took it upon myself to make an in-memory representation of the system’s ubiquitous security configuration & policy, which sped up certain operations by about 50x, and now an integral part of the system
* Lead a team of 3 to create the company’s first production-ready, extensible SOA system

Jun 2004-Sep 2004 – Developer, HM Revenue and Customs (holiday employment)

* Worked in a team of three, creating a major upgrade to the UK’s VB6-based Duty-tracking system, working to deadlines, while handling conflicting client requirements and change requests
* Primary focus was coding and debugging, based on a pre-defined specification
* In charge of updating the ASP web interface, as well as training another developer with the skills to take over

December 2003 – Dold Industries UK Ltd (1-week contract)

* Created the Dold Industries UK corporate website (www.dold.co.uk, since replaced)
* Worked with the Managing Director and top-level sales staff to gather company’s requirements
* Created Java-based tools to aid catalogue creation

# Education

Sep 2004-Sep 2005 – MSc in Advanced Computing Science, University of East Anglia, Norwich (distinction)

* Achieved over 70% average mark
* Dissertation project based on Context-aware mobile information-service infrastructure; a generic, self-configuring information-broker for mobile devices, which combined simplicity of use with an extensible array of intelligent information-services e.g. weather, stock quotes and proximity alerts. (77%)
* Other units included Speech & Natural Language Processing, Information Retrieval, Systems Engineering and Analysis & Design.

Sep 2001-Jun 2004 – BSc in Computer Science, University of East Anglia, Norwich (2:1)

* Major interests gravitated toward web & database-centric units
* Other units included Data Structures and Algorithms, Networking, Discreet Mathematics
* Final project consisted of a J2EE/web based scheduling system, with working with a real-world garage chain to capture the business requirements.

Other Education

* Sep 1999 – Jun 2001 – Westcliff High School for Boys - 4 A-levels, B - D
* Sep 1994 – Jun 1999 – Westcliff High School for Boys - 10 GCSEs – A\* - C

# Professional Development

* 2009 - 3-day NHibernate course at Skills Matter, given by Ayende Rahien – one of its core developers
* 2012 - 3-day NServiceBus / CQRS course at Skills Matter, given by Andreas Öhlund, Director of Engineering, NServiceBus Ltd
* Various after-hours technical workshops in London

# Hobbies & self-learning

* I hold a private pilot’s license
* Currently creating a web & mobile application with a friend to record flights, and create a community around them.
  + Based on **ASP.NET MVC 4**, **RavenDB** (a document database) & Twitters’ **Bootstrap** framework
  + Based on a self-developed native **Windows Phone 7** application
  + In the process of creating an **Android** client
  + In the process of creating a **jQuery Mobile** client
* Currently enrolled on a **MongoDB** correspondence course, offered by 10gen, taught using **Python**
* Have been using Linux on-and-off since 2001, and comfortable with general usage (use Ubuntu at home)

References are available upon request