Jonathan Bates

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MSc (distinction) in Advanced Computing Science

# Employment Details

Jan 2013 – Present – Senior Developer, JustGiving, London (www.justgiving.com)

Responsibilities

* Front & back-end development on a site that typically has 3000 concurrent visitors, with an 800GB dataset
* Part of the FinTech team, who are responsible for all payment processing, donation-collection-api development
* Seconded to the FinTech front-end team, responsible for creating the new donation checkout using react/redux
* Coordinating with project-managers, UI & UX specialists and front-end developers in a cross-functional team
* Creating testable, robust code in an agile environment for continuous deployment following **SOLID** principles
* Maintaining and extending automated test-coverage around the core system
* Development using **C#6**, **ASP.Net WebAPI**, **NHibernate, Dapper, Sql Server**, **Git**, windows-services with **Nancy FX** front-ends, **log4net, Rest#, API, Moq, Ninject, AngularJS** and **React/Redux**
* Removing technical debt from the mature system where it is safe to do so

Achievements

* Created and ran a 6-week programming course for my non-technical colleagues, with a backlog of 55 students, from support staff & product managers to the CEO
* Part of the core team tasked with breaking up the monolithic system into **AWS**-based microservices
* Created the only known **EventStore** HTTP client for .Net (github.com/JustGiving/JustGiving.EventStore.Http)

Oct 2005-Jan 2013 – 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 users, whilst maintaining performance
* Application Development using **C#**, **Monorail** (a .Net MVC web framework), **NHibernate 3**, **Linq**, **SOA** (using **NServiceBus** & **MSMQ**), **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 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.
* 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

# 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

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
* 2012 - A **MongoDB** correspondence course, offered by 10gen, taught using **Python**
* Learned AngularJS & C#5 async using PLuralsight in my spare time to apply at work
* 2014 – Greg Young’s Advanced CQRS course at SkillsMatter

# Hobbies & self-learning

* I maintain a couple of public .Net libraries
  + [www.github.com/JustGiving/JustGiving.EventStore.Http](http://www.github.com/JustGiving/JustGiving.EventStore.Http)
  + [www.github.com/spadger/simple-config](http://www.github.com/spadger/simple-config)
* Currently creating a patent-spoiling application
  + Based on **ASP.NET MVC 5, WebAPI, RavenDB** (a document database), **ElasticSearch** & **AngularJs**
  + Hosted in Azure
* I browse pluralsight corses in my spare time, and dabbling with a little **Xamarin** & **Neo4J**
* I have been using Linux on-and-off since 2001, and comfortable with general usage

References are available upon request