

David Gerrard PhD, MSc, BA (hons)

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1 SUMMARY

An Information Systems Analyst / Developer with leadership experience, currently writing the business case for Digital Preservation systems at Cambridge University Library. Previously Lead Developer in a \$1Billion finance company during a period of intense growth, my team was responsible for developing a payment system that took £50k per day when I started, and £25 million per day by the time I left. With varied experience in both the private sector and academia, I was awarded a PhD in Information Science in 2016.

2 SKILLS AND EXPERIENCE

- **Leadership experience:** between 2009 and 2012, I was a lead developer, recruiting, supervising, mentoring and appraising a team of twelve developers, and directing the departmental culture towards Test-Driven and business facing development methods.
- **Client-facing and business analysis experience:** twenty years' experience of requirements analysis, working with customers, modelling business processes, demonstrating products and delivering presentations and training. Some freelance consultancy experience with my own company.
- **IT systems development experience:** most of my hands-on development experience is with Microsoft products, in particular ASP.Net and MVC, Winforms, websites and integrated business applications using C# and VB.Net, with some SharePoint and BizTalk. Some WCF and WPF. Also some JavaScript, Java and PHP experience. More recent experience with Python and R for data analysis.
- **Data handling:** eighteen years' database experience with SQL Server and MySQL. Fifteen years' experience of XML and related technologies. More recent experience with JSON and data graphs.
- **Software design:** ten years' UML and design patterns, including hands-on experience of enterprise-level systems integration using messaging systems.
- **Development methods and processes:** ten years' experience of Agile development, mostly using variants of Scrum. Experience of managing the Software Development Lifecycle in a heavily-regulated environment (Sarbanes-Oxley). Knowledge of data security protocols, especially PCI-DSS.
- **Automated testing, TDD and Continuous Integration:** mostly using the Visual Studio test suite, but also with JUnit and Py.test. Version control with TFS, Git / GitHub. CI with TFS and Team City.
- **Search engine development, use of metadata and the Semantic Web:** ten years of professional experience, including Google Enterprise Search Professional and Lucene / Solr. Knowledge of a variety of library and content-management metadata standards e.g. MARC 21, Dublin Core.
- **Computational research methods:** experience of techniques such as automated Social Network Analysis, Entity Recognition, Concept Mapping and a variety of techniques related to Fuzzy Logic.
- **Copywriting and technical authoring:** writing technical specifications, promotional copy and press releases, management reports, project documentation and manuals.
- **Library systems experience:** have thoroughly researched the Digital Preservation systems market (and related standards and metadata schema). Also versed in the Archive Management Systems market. Some experience of research data repository systems.
- **Academic research methods:** incorporating systems development / prototyping with interviews and holistic systems analysis. Also investigated linked-data / semantic networks for my Masters Thesis.

3 CAREER HISTORY

Current: Digital Preservation Technical Specialist – Cambridge University Library

September 2016 – Present

Developing a business case for Digital Preservation, focusing on technical challenges of preserving data, the preservation systems market, solution architectures and integration with current systems / processes.

Other key role: Lead Developer, Dollar Financial Group UK Ltd

October 2010 – June 2012

Challenging lead role in the systems development team of the UK division of a \$1 Billion US enterprise. Led a team designing, developing, implementing and integrating enterprise-scale applications into a complex, highly-regulated landscape of delicate legacy systems. Achievements included implementing a scalable card payment platform, piloting an Enterprise Service Bus, introducing the team to Test-Driven Development, and creating a career development framework for team members.

OTHER ROLES

From / To	Company	Role
11/08 – Present	Trovo Ltd	Technical Director (own company)
01/08 – 11/08	CDS Global Ltd	Digital Services Developer
07/06 – 12/07	Data Perspective Ltd	Research Analyst
09/02 – 12/06	De Montfort University	Web Designer / Developer
03/00 – 04/02	Konami Amusement of Europe Ltd	Webmaster
07/98 – 03/00	Scoot UK Ltd	Web Page Developer
05/97 – 07/98	University of Central Lancashire	Multimedia Designer

4 EDUCATION

Most recent: PhD in Information Science – Loughborough University

October 2012 – awarded September 2016

I investigated the potential for Social Media data to aid museums with both planning and evaluation of their events, mixing fieldwork analysing museum business processes with technical data analysis methods.

PREVIOUS EDUCATION

From / To	Institution	Qualification	Grade
09/03 – 01/07	De Montfort University	MSc Computing (PT)	Distinction
09/92 – 06/95	University of Central Lancashire	BA English with Visual Studies	2:1
09/88 – 06/91	The Henley College	3 A Levels, 2 A/S Levels	A to D
09/83 – 06/88	Chiltern Edge School	1 O-Level and 8 GCSEs	A to C

5 TRAINING

Year	Course	Provider	Duration
2017	Introduction to Fedora 4	Duraspace	2 days
2014	Qualitative Research Methods	Loughborough University	1 week
2010	Enterprise Systems Architecture	QA Training	1 week
2009	Intro to Microsoft BPOS	Microsoft	1 day
2007	Google Enterprise Professional	Google Inc.	1 week
2005	Rational Media User Training	Torchbox Ltd	1 day
2005	Rhythmyx 5.5. Developer	Percussion Software	1 week
2001	Introduction to XML	Tech Connect	3 days

6 INTERESTS

A lot of my free time seems to be devoted to decorating, gardening and so on. The remainder is taken up with cooking, reading novels and walking in the countryside. I also enjoy watching live sport; in particular cricket and football, and I play golf occasionally.