**Enterprise / Solution Architect**

**MILO CLARKE**

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### GENERAL

Twenty five years’ experience as an I.T. professional I have strong organizational, technical and project engineering skills with proven ability to practically utilize extensive knowledge of current information systems technologies.

**CONSULTANCY EXPERIENCE**

PriceWaterHouseCoopers (3Years)

Accenture (1 year)

EDS (1 year)

ATOS (1 year)

Cap Gemini (6 years)

### INDUSTRY EXPERIENCE

Telecoms, Retail,, Manufacturing ,Government and Insurance

### EDUCATION

* Certified AWS Solutions Architect Associate (July 2019)
* Certified Cloud Professional ([CloudSchool](http://cloudschool.com/certifications)) (February ’15)
* SOA Architect ([SOASchool](http://www.soaschool.com/certifications/architect)) (January ‘15)
* TOGAF 9.1 Certified ([TOGAF](http://www.opengroup.org/certifications/togaf9-program)) December ’14)
* Oracle SOA Suite 11g: Essential Concepts (March ’13)
* The Principles of SOA Design (May ’08)
* Cisco Certified Network Associate (October ‘02)
* Introduction to TIBCO Rendezvous Messaging Infrastructure (April ’02)
* Java 2 Enterprise Edition (J2EE) Architecture Patterns (December ‘01)
* Project Management Fundamentals (July ‘00)
* EERP System Foundation Course (August '99) – included (Oracle8 DBA, Unix Admin, network fundamentals & NT40 Admin)
* People Soft Technical Bootcamp (May ’98)
* Degree - 2:1 BSc (Hons) Strategic Systems Management (4 yr program including a research paper on IT Outsourcing)

### PROFESSIONAL AND BUSINESS HISTORY

**HMRC (Jan 2018 – Present)**

**EU Exit Chief Technologist**

Responsible for overall platform architecture of all EU Exit programmes across cloud (AWS / AZURE) and on-premise, working with business, technical Product Owners and vendors to prioritise and plan delivery.

* Lead team of 10 cloud architects and 40 DevOps engineers.
* Influenced and drove organisational structural changes to simplify decision making processes and ultimately architectural patterns.
* Initiated and overseen a cost reduction drive to reduce monthly cloud spend
* Forward look AWS platform roadmap focused on simplifications with increased use of cloud native services.
* Re-engineered DevOps automation approach to improve scalability, quality and reduce time of both infrastructure and business application deployment.
* Re-engineered testing approach so that automated testing could be driven from deployment pipeline.
* Managed platform risks and risk treatment plans which included security, performance and Operational Acceptance Testing.
* Collaborated with vendors on Live Service Operational Model to implement 24/7 support.
* Imitated Proof of Value multi-cloud containerized deployment of monitoring and DevOps tooling to confirm the capability for business application in the future.
* Member of various boards including Architecture Governance, Security, Scope Change, Programme and Production Change approvals
* Architecture SME for National Audit Office Engagement.
* Architecture SME for National Cyber Security Centre engagement.
* Architecture SME for Information Commissioner’s Office engagement (GDPR).

**HMRC (Nov 2016 – Jan 2018)**

**Lead Delivery Architect CDS Programme**

Customs Declaration Services (CDS) is a large scale IT change programme being delivered through a combination of in house delivery groups supplemented by external suppliers and procured Commercial off the Shelf (COTS) software. CDS is a strategically important programme for HMRC and is driven by the principal need to replace and decommission the CHIEF (Customs Handling of Import/Export Freight) system.

The architecture included migrating traditional J2EE application to AWS, designing new microservices and using AWS PaaS services.

**Responsibilities include:**

* Lead team of 20-30 architects covering all aspects of design – cloud infrastructure – application deployment – integration patterns – security – data – non-functional requirements etc.
* Setup and Chair of programme Technical Design Authority
* Provide technical leadership, in the development, operation and ongoing improvement of complex, transformational digital services serving millions of users
* Act as the technical authority in prospective, information gathering and scene setting meetings with other government departments, evaluate technical proposals from external suppliers, and make implementation recommendations to senior stakeholders
* Advise on, manage and implement agile delivery projects within government departments, providing guidance, mentoring and training in agile technical delivery and evolutionary software architecture to government departments and agencies
* Assist with building a culture of continuous delivery and improvement, ensuring that key systems are regularly analysed, maintained and improved
* Develop approved technical standards, and the platform design and promote reuse, make progress towards the future state architecture, simplify the technical environment, and reduce the cost and timeframe of development
* Strategic alignment of technical design and architecture to meet business growth and direction
* Provide mentorship and knowledge transfer to internal team members with the goal of the internal team being self-sufficient in a planned timescale
* Sharing knowledge of tools and techniques with the wider team, both developers and non-developers
* Support the Department as a subject matter expert on service-oriented architecture design patterns and related middleware and messaging API design and management, to improve our ability to meet key objectives relating to development and product delivery; quality, availability, security, and capacity/performance; and future state strategy
* Work broadly with a team of architects and development leads to define and document architecture patterns and technology standards to accommodate delivery of functional
* Define all interfaces between technology components and subsystems in sufficient details to support delivery groups (Enabling Epics and Features)
* Facilitate regular review of the end-to-end solution by CTO to ensure that the low level solution design aligns with the overarching programme design and architectural blueprints

**Admiral Insurance Group (April 2015 – Oct 2016)**

**Enterprise Architect on the BOLT Programme Phase 1**

Large and complex project to re-platform and modernise the groups back office operations with the leading insurance software from Guidewire. I have been responsible for a number of component level designs as well as review and assurance of the overall approach. I attend both the program steering committee meeting and the Technical Governance quality gates to provide technical guidance.

**Responsibilities included:**

* Authored environment strategy document and infrastructure design principals
* Authored 7 of the 13 Infrastructure High Level Service Solution Designs
* Redesigned batch processing and file movement processes
* Reviewed service design artifacts applying SOA principles and patterns
* Authored PolicyCenter and BillingCenter design / deployment strategy
* Authored / implemented / governed pre-production infrastructure change management processes
* Authored JBOSS deployment strategy and overseen the automated build and deployment procedures
* Infrastructure Stream lead on the performance test de-risking effort
* Sizing of the full performance environment, production environment and the training environments
* Responsible for integration testing of the performance and production environments
* Member of the OAT and cut-over planning team
* Resource planning of the environment build and support teams
* Technical engagement for the third-party security testing
* Contributed to the setup of the Live Service Command Centre support structures

**Technology Stack**

|  |  |  |
| --- | --- | --- |
| JBOSS EAP 6.4  Domain Mode | VMware 5.5  Power CLI | RHEL 6.7  Satellite |
| RHEL Cluster +GFS2 | Guidewire Policy Center 8.02  J2EE Application | Guidewire Billing Center 8.02  J2EE Application |
| MuleSoft ESB 3.7 | Thunderhead Now  J2EE Document Production Application | CGI Ratabase  J2EE Application |
| REDIS  NoSQL | Oracle RAC 12c | Teradata 14.10 |
| BIG IP / F5 Network Infrastructure | Infomatica PowerCenter 9.5 | Microstrategy 10.1 |
| Puppet 4.0 | SolrCloud | Subversion  Tortoise SVN |
| [AppDynamics](http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=0CGcQFjAGahUKEwj0rd3fwcXIAhWD1hQKHTTVAmE&url=http%3A%2F%2Fwww.appdynamics.com%2F&usg=AFQjCNEok4JU-HIMZA6g-29PHiR6XoFY8w&sig2=RV4GQtdIFYsHWrW0HkuJQw) | Jmeter | JAVA 1.8 |
| Confluence 5.6 | JIRA | SOAP UI |
| IBM Iseries Power6 – Power8 | AS400 | DB2 |

**RR Donnelley (June 2016 – Aug 2016)**

Consultancy role to advice on the possible integration options to offer a PaaS based Customer Communications services to the UK insurance industry.

* Provide overview of Guidewire InsuranceSuite
* Business workshops
* Architecture workshops
* Strategy formulation
* Client engagement support
* Q&A follow up

**Capgemini UK (Aug’08 – Nov ‘14)**

**Lead Solutions Architect – Evidence Exploitation Project (2011 -2014)**

The project aims are to improve both the time taken to process bulk case material and to increase the number of successful prosecution supported by the Criminal Investigation teams.

To achieve these aims a Big Data eDiscovery suite was selected, piloted and deployed on a virtualized platform using vSphere to ingest terabytes of data from various sources including third-party Digital Forensic and OCR scanning.

**Responsibilities included:**

* Requirement gathering workshops / User Stories
* Authored Full System Architecture documentation set (Define & Design stages)
* Authored Component Design Architecture (CDA) documentation
* Technical assurance review process
* Low level designs / System Use Cases
* Supervisions and sign off for third-party interfaces Connection Contracts
* TDA during project implementation phases supporting Project Managers
* Governance of Design / build and management of business system Labs
* Governance of Design / build and management of Pre-Production and Production environments

**Technology Stack**

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| --- | --- | --- |
| JBOSS 5.1 (JAVA application server | EMC Captiva (Intelligent Document recognition) | APACHE 2.2.4 (web server) |
| Oracle Weblogic server 11g | MS SQL Server 2008 | Norman Endpoint, MacAfee (anti-virus) |
| HPeD, HTML 5.0, JSON, | FTK (forensic imaging) | Solaris 10 |
| Visualizations, heat maps, message tracers, link maps | IIS 7.5 (SFTP) | NAGIOS / Opsview environment monitoring |
| HP Autonomy IDOL 10 (Enterprise Search) | Windows 2008 R2, Windows 2012 | VPN setup |

**Solutions Architect – Datacenter Consolidation & Decommissioning Project (2010 -2011)**

An enterprise wide program of work to leverage existing assets and reduce I.T. service costs. Due to the size and complexity of the architecture a phased approach was implemented with domain experts leading the analysis and recommendations. I was the lead for the confidential domain and I achieved a 30% reduction in overall costs.

**Responsibilities included:**

* Asses baseline architecture performance and usage
* Identify candidate components and hardware to be decommissioned
* Cross reference results with architecture roadmap
* Present to Stakeholders
* Co-ordinate planning and testing
* Govern implementation

**Technology Stack**

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| --- | --- | --- |
| Oracle Weblogic server 11g | APACHE 2.2.4 (web server) | Windows 2008 R2 |
| HP Autonomy IDOL 7 (Enterprise Search) | GetAcess 7 (SSO) | Veritas Cluster |
| EMC Documentum 6.5 | LDAP | CA Introscope application monitoring |
| ADOBE Forms 8.1 | Oracle TopLink (Object Oriented data Layer) | NAGIOS / Opsview environment monitoring |
| RedPrairie (Warehouse Management) | Oracle 10g (Including OLS & CDC) | Solaris 10 |

**Solutions Architect – Case Management Enhancements Project (2009 -2010)**

An accreditation review highlighted a number of risks in relation to the Criminal Investigation case management system that led to a Change Request. The focus of the change was to re-design the email lifecycle functionality. I took a SOA approach with the re-design taking advantage of the Business Process Services functionality of the Documentum Content Server. This approach required a dispensation from the Architecture board as the policy for email was to use MS Exchange. Introduction of a Single Sign On Solution to unify authentication services and consolidate the LDAP authorization services.

**Responsibilities included:**

* Baseline architecture assessment and gap analysis
* Presentation to Architecture Board for dispensation
* High / detailed level Information Services and Technology design
* Update to RMADS (Risk Management)
* Engagement with the development team
* Managed third-party Penetration testing
* Governance of planning and testing efforts

**Technology Stack**

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| --- | --- |
| EMC Documentum 6.5 | LDAP |
| MS Exchange 2003 | GetAcces 7 (SSO) |
| HP Autonomy IDOL 7 (Enterprise Search) |  |

**HMRC (March ’05 – Aug ‘08)**

Solutions architect for the Confidential Spectrum programme. The Case Management application set for Spectrum was developed by a third party and then assurance tested on HMRC infrastructure in the functional test, regression, stress, migration and training environments before going into LIVE.

**Responsibilities included:**

* Contribution to full system architecture documentation set
* Component Design Architecture (CDA) documentation
* Technical assurance review process
* Low level designs
* Work package QR
* Adherence policies for SC systems
* Cost Driver workshops
* DR design / process / procedures
* Penetration testing engagement management
* COTS product selection process
* Non-functional requirements gathering
* Supervision of proof of concept trails
* Project planning of environment requirements and timescales
* System acceptance testing procedures
* Team lead responsibilities – mentoring / training / resourcing

**Technology Stack**

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| --- | --- | --- |
| Oracle Weblogic server 10g | APACHE 2.2.4 (web server) | Windows 2003 |
| HP Autonomy IDOL 7 (Enterprise Search) | GetAcess 7 (SSO) | Veritas Cluster Server |
| EMC Documentum 6.5 | LDAP | BO Data Integrator / Reporting |
| ADOBE Forms 8.1 | Oracle TopLink (Object Oriented data Layer) |  |
| RedPrairie (Warehouse Management) | Oracle 10g (Including OLS & CDC) | CA Introscope application monitoring |
| Solaris 10 | NAGIOS / Opsview environment monitoring |  |

**Summarized Employment History**

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| **Employer** | **Dates** | **Position** |
| HMCE | June ’04 – March ‘05 | Technical Architect |
| Bea Systems | May ’04 | Consultant |
| EDS / Inland Revenue account | Oct ’03 – March ‘04 | Technical Architect |
| Bea Systems | Sept ’03 - Oct ’03 | Consultant |
| Environment Agency | Dec ’02 - Sept ‘03 | Technical Architect |
| KPN Telecom Netherlands | Aug ’01 – Oct ‘02 | Technical Architect |
| Atos Origin | March ’01 – Aug ’01 | Senior Engineer |
| PricewaterhouseCoopers | Feb ‘98 - March ‘01 | Principal Consultant |