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| Martin Palmer | | |
| Summary | | |
| Martin is a skilled analyst developer with 20+ years of experience in all parts of the software development lifecycle. He is confident at defining specifications with customers, analysis, and design through to implementation. He has also done considerable work in testing, generating manuals and providing customer training. With over 17 years’ experience working with object-orientated, waterfall and agile methodologies; practical application design in both C++ and C#; he has worked on numerous mission-critical, safety-critical, and embedded systems, and has developed a reputation for clearly analysing complex systems regardless of the domain.  Martin is equally at home working on algorithmic business logic as he is developing user interfaces and has excellent customer skills and has spent many years working at various customer sites. Recently he was asked to be first speaker at an international conference on Secure Dev Ops taking place in Paris.  Martin is recognised for his technical expertise, his creative problem-solving skills and his calm under pressure. His knowledge of end-to-end systems allows him to provide reliable solutions to many issues encountered in product lifecycles. | | |
| January 2019 – Present | Contino | London |
| Azure DevOps Consultant  * Design and implementation of a subscription agnostic pattern for end-to-end CI/CD of an AKS environment into Azure via Azure DevOps. * Integration of Application Insights an Operational Insights across customers estate - covering IaaS, PasS and AKS Containers. * Applying Best Practice to Azure estate through Security Centre and AzSK toolkit. * Creating CI/CD through Azure DevOps and showing how they integrate with existing tooling (Jenkins/Jira/GitHub etc.) * Author of AzSK Utils, an Azure DevOps Marketplace extension to support the Azure Security Kit within CI activities. | | |
| July 2016 – December 2018 | AXA Swiftcover | Cobham, Surrey |
| Azure DevOps Consultant  * Architecting secure Azure solutions for AXA as a major player within their cloud migration programme; combining ARM and DSC via Azure automation for Automated IaaS solutions as well as architecting PaaS and SaaS components. * Creation of end-to-end CI & CD pipelines for use with databricks in Azure; including creation of custom Azure DevOps extensions as well as python-based reporting tools to support both pipelines. * Providing technical leadership for re-platforming of the Guidewire Insurance Suite onto the Azure platform as a world first, automating both environment creation and build/release pipelines. * Creating CI/CD solutions for many languages including Java, Node.JS, and C# within VSTS. * Demonstrating the use of automation and BDD within environment configurations as an active part of the DevOps toolkit. * Training staff (from developers to senior management) in Agile methodologies, and actively using them to enable micro-releases to environments in a controlled manner via Git. * Architecting custom VSTS extensions including Microsoft Key Vault substitutions as part of the VSTS automated pipeline. * Presenting the VSTS CI/CD architecture described above at an international conference with members of Microsoft, Google and Amazon as part of the audience. | | |
| April 2016 – July 2016 | Avado Learning | Hammersmith, London |
| Senior DevOps Engineer  * Development of CI/CD toolchains using Octopus and Team City to best deliver C# & PHP based Moodle e-learning platforms. * Creating Azure based cloud demonstrators to illustrate benefits of moving from on premise infrastructure. * Demonstrating the concepts of Site Reliability Engineering, and how this benefit the business. | | |
| September 2014 – April 2016 | ASOS.COM | Camden, London |
| ALM Solution Architect  * Technical design authority for solutions for ALM Platform Development, working with the appropriate stakeholders including Solution Architects and software engineers who use the ALM Framework, architecture and service * Part of a Technical Design Authority to ensure consistent high-quality designs across ASOS. * Responsible for the technical delivery of the ALM Platform Development team, ensuring the team delivers to required quality and adheres to best practice. * Drive continuous improvement of ALM technologies, independently work up proposals for making existing tooling better, reimagine design principles and processes. * Work with software engineering teams who use the ALM Framework to build, deploy and test their code to on premise and Cloud based platforms. * Working with DevOps engineers (on site and remote) to define the migration strategy for 30+ silo teams to streamline the build/deployment /testing pipeline. * Evaluating emerging ALM/DevOps technologies and evaluating their applicability for use on the ASOS codebase. * Active attendee of Microsoft ALM Insider meetings to aid the direction of development and release software | | |
| June 2013 – September 2014 | Hewlett Packard | Hook, Hampshire |
| Tools & Environment Subject Matter Expert – AMPA Programme  * Responsible for update to development, design and analysis tools for a programme of 300 people. * Creation of architecture to create custom scalable Continuous Integration environments for C, C++, C# and Java systems. * Defining programme standards for code analysis tools (see Technical Experience Appendix) to ensure common reporting across all projects. * Design Authority for roadmap of migration from DOORs/ClearQuest to HP ALM12.0 business processes, and prototyping initial conversion tooling. | | |
| July 2004 – May 2013 | Logica UK Ltd. | Reading, Berks. |
| Configuration Management Architect – Galileo Satellite Programme  * Architect for Galileo Programme CM solution within Logica, used daily by over 160 employees across Europe and synchronised between several island networks. * The CM solution is a blend of .Net 4.5 Win and Web Form applications tunnelling via Web Services to a custom XML indexed SVN Repository. The solution is scalable for deployment on multiple island networks from a single installation media, providing both custom tools and a unified ASP.Net portal for all users.  Technical Team Lead – K2 Project  * Leading a team of developers to analyse and design a solution as part of a secure  web-hosting project. * Mentoring the development teams in the use of UML as a design tool and implementation  in C# and SQL.  Document Manager – Helsinki, Arm, Lemur, Monmouth and Tryfan bids  * Martin was singled out for the role due to his level headedness and clear analytical skill for the Helsinki bid which was a complex consortium bid (worth over £150M) being run as a competitive dialogue, with challenging timescales - weekly dialogues that required presentations and documents, in addition to the overall bid response which ran to several thousand pages. * Management of the incoming information from the client (hundreds of documents) and dissemination to appropriate parties; enforcing the appropriate security procedures as required for the material. * Analysis and recommendation of Accessibility solutions for a bespoke application, providing demonstration material for briefings with client. * Detailed requirement analysis as preparation for ITT, and creation of bespoke analysis tools to audit requirement change history.  Team Lead (Technologies Volume) – Galileo Ground Mission Segment Bid Team  * The generation of documents for European Space Agency (ESA) proposing Logica as prime for the Ground Mission Segment of the Galileo programme. Martin worked as the team leader for the largest volume of the bid, which required more than 50 documents to be created.   **Senior Software Engineer – Secure client**   * Two-phase technology-refresh developing mission-critical real-time applications. * Tasks ranging from developing backend Windows Services on Windows servers to .Net/MFC front ends. * Modification and maintenance of several SQL Server, RDB and XML databases. * Generating development and testing tools using MFC and C# to allow easier integration of new functionality without the need for extensive regression testing. * Designing and implementing changes to several VMS and Linux servers. | | |

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| July 1998 – July 2004 | Sonardyne International Ltd. | Yateley, Hampshire |
| Senior Systems Engineer  * Developing a generic set of in-house modules, targeted for the Windows Operating System using Visual C++ and MFC. * Creating a generic real-time scheduler, driven by an ASCII text “script” file. This module was able to configure instruments, collect data from them and pass the results to a Kalman filter. * Developing real-time diagnostics from the Kalman filer in the form of MathML output. * Tracking wizard aimed at guiding users through configuration of instruments for different tasks. * Writing the in-house Geodesy conversion module. * Creating an OpenGL 3D visualisation tool to display real-time positioning information. * Developing a suite of GPS logging utilities targeting the NT embedded platform. * Porting of “back-deck” utilities from Desktop to PocketPC using XML as the transfer medium. | | |
| August 1995 – June 1998 | EASAMS Ltd. | Camberley, Surrey |
| Operations Analyst  * Modifying a Monte-Carlo model to work with target types against aircraft, by analysing the radar and dynamic properties of different objects. * Developing Radar and Acoustic modelling software for the Royal Navy. | | |

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| Azure DevOps (formally VSTS) experience | | |
| **Work Item Management**  • Customisation of the VSTS ‘agile’ template to fit with the needs of the AXA BA’s; e.g. removing ‘priority’ replacing with MoSCoW options.  • Agreeing the modifications required for VSTS, working to limit the ad-hoc changes while modifying the existing AXA processes to make VSTS support their needs out of the box.  • Importing and conversion from current TFS/Excel implementation into the correct shape for VSTS  • Training users (from developers to programme managers) in the use of Agile and how to make best use of the reporting  • Prototyping dashboards for use by the programme/projects to again remove the need for custom excel workbooks as a reporting tool.  **Source Code Control**  • Setting up GIT repository structure  • Helping to define the “Pull request” policies to mimic their existing TFS merge gates  • Training users in the of Git outside of their IDE (JetBrains, Visual Studio, Eclipse) to make better use of the toolkit.  • Training in the use of git ‘submodules’ to make embed modules into VSTS tasks – making the code only be maintained in one place.  • Instilling good practice in tagging and ‘micro-releases’ to provide faster feedback on code development.  **Build Pipelines**  • Defining cross language (Java, Node, C#, Python) and cross platform (Windows, Mac, Mobile) build pipelines.  • Training in the use of the variable storage in VSTS and how to generate ‘repeatable shapes’  Creation of custom tooling (VSTS extensions) to in-fill activities like KeyVault access to variables, Java package manipulation.  **Deployment pipelines**  • Training in the use of the variable storage in VSTS to support releases  • Customising the scripts (and where possible creating VSTS extensions) to support the needs of the target environment configuration (something Guidewire themselves were not used to)  • Customisation of azure environments (via ARM) to allow subscription agnostic ARM to be generated – simplifying the path from dev to live.  • Extended the Gated release mechanism in VSTS to support Selenium pipelines to become part of the automated release promotion  • Adding Application insights reporting into releases to allow traceability beyond the CI/CD cycle.  **Reporting**  • Creating VSTS dashboards for each environment to cover build, test and release status. These become the single point of truth for the status of the whole process.  • Prototyping PowerBI reports to allow drilldown into the stories and status  To support this several Azure activities were also undertaken:  • Full automation of all build and deployment tooling through Azure Automation, Desired State Configuration and use of chocolatey packages.  • All environment configuration was inspected by independent BDD tests to report back on anomalies.  • All code for this is through a similar CI/CD cycle to provide hands-off environments built to a known state estate.  My involvement in the project allowed it to move from a small team Proof of Concept (2-3 users) to a 200+ team supporting the claims platform within AXA Swiftcover.  Along the way, I was able to train up the dev/testers/QA/admins to allow them to take ownership of the project/process allowing me to move on to the next project. | | |
| Education | | |
| 1992 – 1995 | Liverpool University | Liverpool, Merseyside |
| B.A. (Hons.) Mathematics and Information Technology  * First Class | | |
| 1984 – 1991 | Okehampton College | Okehampton, Devon |
| A-Levels  * Pure Mathematics and Statistics (B), CDT Technology (B), Physics (D) | | |
| AS-Levels  * Calculus and Particle Dynamics (D) | | |
| GCSEs  * 9 GCSEs – including Physics (A), Mathematics (A), English Language (B) | | |

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| Interests and Activities |
| Successfully ran the Virgin London Marathon twice for charity and completed the Scotland Coast to Coast endurance race in 2013.Developing native IOS/WatchKit apps to aid with training for distance running, making use of Apple HealthKit API.Developing at home a distributed ‘Street-View’ based training machine for road cycling using .Net Core technologies and custom hardware.Technical Experience Appendix |
| Application Lifecycle Management & DevOps  * Architect of custom ALM installations using different CI/CD pipelines- both on-premise and in the cloud. * PowerShell remoting of rollout in support of DevOps. * Full Customization of ALM environment, extending workflows and custom reports. * Creation of PowerShell tools to transform existing DOORS requirements and test case material  into ALM. * Training users and management in the use of ALM and its reporting facilities. * Rollout of HP ALM 11.52 and 12.0 to projects. * Active experience of many DevOps tools including Jenkins, TeamCity, VSTS, TFS, Octopus and Redgate CI. * Creation of custom DSC modules for bespoke infrastructure. * Extending the open Source PoshChef framework to allow better integration with various cloud providers. * Creation of Docker images for test scenarios  Development Practices  * Specification of Jenkins Continuous Integration environments for C++, C# and Java, and rolling out the standards within the developer community. * Definition and roll out of developer environments. * Patterns, Unit Testing, OOA/OOD * Configuration of SonarQube runners using JaCoCo, Clover, Coverity. Valgrind, Insure++, Bullseye, JetBrains, NDepends, StyleCop and FxCop Analysis tools. * Software Profiling, Refactoring  Linux/Unix environments ***Worked with Redhat and SUSE Enterprise server installations, covering:***   * Creation and Documentation of development, analysis, client deliverable servers and workstations. * Configuration of LDAP services for use across UNIX domains. * Creation of localized branching strategies and training developers in the use of the appropriate tools * Configuration of Subversion repositories, control of user access, and server-side hooks to enforce common practices * Installation, configuration and documentation of Jenkins, SonarQube and Coverity environments (including license management of all plugins). * Definition, documentation and rolling out of Coverity usage strategy across multiple teams. * Point of contact for license management for both open source and commercial Linux tools. * Restructuring of build environments to enable simpler rollout and branching mechanisms. * Within Redhat – standardisation of RPM SPEC files within account, becoming the localized expert in their implementation, and making best use of the tools provided by the OS. * Creation of roll-out strategy for development tool/environment, planning releases to work best with other internal projects**.** * Worked with CI system, including creation of strategies to make best use of current hardware, and future installations. * Worked with development teams on the best use of the following tools: JUnit, Maven, SonarQube, JaCoCo, Clover, Valgrind, Insure++, StyleCop and Bullseye analysis tools. * Used SVN tooling to provide near-instant reporting of repositories based  on defined metadata. * Defined tooling to assist continuous delivery for numerous client deliverable projects.  Bug Tracking Systems  * Creation of bespoke import scripts for documentation into ALM. * Configuration and optimization of Mantis bug tracking software. * Designed and rolled out analysis tools to generate customer documentation from Bug Tracking databases.  Databases  * Primarily SQLServer * Other databases: Access, RDB, Oracle, MySQL, XML * Creation and extension of Tables, Triggers, Stored Procedures, Indexes, Views and Constraints within SQLServer and RDB  Version Control Tooling  * Expert in Subversion administration, configuring multi-site instances to synchronize over various network feeds. * Defined metadata schema for Subversion and rolled out over 4 island networks; synchronizing all metadata on one Subversion instance. * Additional SCC tooling includes: Team Foundation Server 2008 to 2017, Git, CVS, & VSS.  Scripting  * 7 years PowerShell scripting experience covering Server administration, custom tool roll-out and MSOffice integration. * Developed analysis tooling of PowerShell scripts to aid with reviews and analysis. * Bash/Ksh * Perl  Development & Design Tools  * Microsoft Visual Studio v5 to Visual Studio 2017 * Visual Studio Code * Eclipse * XCode * XEmacs * Rational Rose * EA  Platforms  * Windows 95 /NT 4.0 – Windows 10 * Embedded NT, XP and PocketPC * Coldfire Embedded platform * UNIX (Solaris, HP-UX) * Mac OS X * VMS * Linux (Ubuntu, Centos, Redhat)  Thorough expertise C/C++  * Level: Expert, 12 years * Strong Experience in multi-threaded real-time and mission critical applications, and security architectures   + Considerable experience in creation of Command line, Windowed, Libraries (Static and Dynamic), Back-end, embedded and User-interface applications   + C/C++ Experience on both Windows, UNIX, VMS and embedded platforms * Strong understanding of MFC, STL, Boost, Managed (.Net) frameworks and  COM/COM + API’s. * Strong understanding of Windows Services, and OpenGL on both UNIX and Windows * Integration of complex algorithmic formulae into C++ code for creation of in-house Geodetic functions and 6DoF Kalman Filters.  Thorough expertise C#.Net, 1.0 – 4.5  * Level: Expert, 9 years * Experience in multi-tier and data techniques for the Web and Windows applications * Experience in WCF architecture * Experience in Web Form and Win Form development * Experience in using the Mono framework on Linux * Experience in Web Service architecture   **Very Strong** Object-Oriented Analysis and Design skills, familiar with Rational Rose, MagicDraw and Enterprise Architect as UML tools. ASP.Net, 2.0 - 4.5  * Level: Expert, 4 years * Large-scale web sites, customizable UI, SQL Server, Stored procedure based backends. * Experience in Web Form (ASPX) and Web Control (ASCX) definition and creation  Web Services, bespoke Client Feeds (TCP/IP and RS232)  * Level: Very Strong, 6 years * Development of service components and XML schemas for communication between applications * Specification and integration of client interfaces * Creation of generic feed decoders/injectors for RS232 and TCP/IP feeds, configured using XML/XPath * Development of Time-Synchronization module to maintain offsets between multiple time feeds, and provide transformation mechanism between them |