Andrew Wilson Paterson

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PROFILE

As a DevOps Cloud Engineer I help enterprises understand how to transform their IT infrastructure, operations and applications to make the most of the AWS platform. I enjoy having a hands on approach to technology as well as devising creative solutions to enterprises. I have a proven ability to deliver requirements against a demanding timescale. I am passionate about technology and Cloud services.

KEY SKILLS

Build Automation	Project Management
Technical Solution Design & Support	Stakeholder Management
Cloud (AWS) Services Design	3rd Party Supplier Management
Cloud (AWS) Services Implementation	

KEY SKILLS

Languages: Java, Python, JavaScript, YAML, XML, SQL, PowerShell
Cloud Technologies: Amazon Web Services (AWS), Azure
Applications: JBoss EAP, Glassfish, Tomcat
Platforms: Jenkins, Coverity, Atlassian, GitLab, Ansible Tower, Splunk, CA APM, AppDynamics
Containers: Docker, Kubernetes
Configuration Management Tools: Ansible, Puppet
IaC: Terraform
OS: Linux, MacOS, Windows
Other: Linux System Administration

EMPLOYMENT HISTORY

RBS - DevOps SME - Infrastructure as Code (Contract)   **Jan 2018 - Present**

Helping RBS move to the cloud (AWS/Azure), by creating a shared service capability within the bank.
Primarily focusing on building out AWS using Terraform.
Creating automated capabilities so that AWS accounts can be rolled out under an AWS organization.
Helping set up Cloud Centre of Excellence by mentoring Cloud Operations users with the right skills to perform their jobs and also providing them with the tools needed.
Architecting applications to be migrated from on premise to AWS and then implementing the solution using Terraform.
Defining and implementing AWS network components (NACL's, Subnets, VPC, VPC Endpoints and Endpoint Services, IGW, NAT GWY, VPC, Direct Connect (Private/Public VIF))

Tesco Bank - AWS Cloud Engineer   **June 2016 - December 2017**

I initially joined the Environments and Automation team that were given 90 days to come up with a proof of concept for the banks new strategy. We successfully delivered the proof of concept using various tools such as ServiceNow, Ansible and AWS. I was then further enrolled into the AWS Cloud Adoption team and tasked with rolling out the new identity and authentication solution for the bank in the cloud and connecting with existing on premise services. This is all done via automation using Ansible, to stand up the infrastructure and the software. Used AWS Lambda (Python) to create Lambda functions to move files between AWS accounts and EC2 scheduling service. I was involved with setting up the CI/CD pipeline (using Jenkins) which developers use before we push the code out to our route to live environments.

Tesco Bank – Senior Application Specialist (Java Specialist)   **December 2013 – June 2016**

I was part of the customer applications management team and managed the main portal/mobile platform where customers login and navigate around our applications. I undertook risk analysis of problems and liaised with other departments. I analysed problems with the code that runs on our applications and identify any issues that may arise. I also advise on any areas that could be improved within the application. I led a team of applications analysts who maintain and oversee issues that may arise within a cluster of applications.

I was involved in the successful upgrade of the banks front end application servers, migrating from JBoss EPP 4.3 to JBoss EAP 6.

Cognia (formerly Compliant Phones) – Software Developer   **Feb 2012 – Aug 2013**

I was a member of a four-man development team that developed a web application for client use. Focused on server side development implementation and code design from user interface, through to the database layer. The IT infrastructure was built around Amazon Web Services. I developed many tools to be used for the development and support team, including two Blackberry test applications. Worked directly with the Software Architect to design and implement new features for the web application as well as develop in-house frameworks and API's to handle the data that was being processed. Developed various projects that were integrated into a web application and various frameworks to handle new features within the web application. Successfully used ANT to build projects and deploy files to our deployment servers before integrating the projects into Bamboo/Jenkins. I set up a Selenium Grid server to run our user interface tests. Developed a Report API to be used on our web application and contributed to our Telephony API. Technologies used: Java, Hibernate, Spring, MySQL, ANT, AWS and ExtJS, Guava, Apache POI, JSP's and JSON as well as using Test Driven Development (TDD) mainly JUnit and Selenium. Tomcat was our preferred application server. I also assisted colleagues by pair programming on other projects. Split our project tasks into weeklong sprints using the Sprint tool on JIRA.

Regus – BPM Developer   **Nov 2011 – Feb 2012**

I was a member of a three-man team to develop automated business processes for Regus. I used the IBM Websphere 7.2 tool to produce solutions to business processes. The role required regular interaction within product-focussed discussions to determine the requirements, timescales and user stories for business processes, which then required automation.

VistaJet International – Java Developer   **Feb 2011 – Nov 2011**

Developed a Mobile Expense System for the company using J2EE, core Java, Spring and Hibernate. I worked on multiple high level projects that automated processes within the aviation industry. I was part of a five-man team that undertook various projects for VistaJet. The main project I developed was an 'On Demand' quotation tool that enabled VistaJet to deliver fast and efficient quotes and flight orders for the customer. I used J2EE, Spring, Hibernate and Flex and also iReports (Jasper Reports) to design and generate PDF files for the system. I developed an interface for use between the new and the current system. This was implemented using J2EE, Spring and Hibernate. I contributed to the functionality of the existing flight booking/control system (all PHP based) and other generic system maintenance.

Lockheed Martin UK, Global Training, Logistics (GTL) – Software Engineer   **July 2008 – Feb 2011**

I was a member of the development team responsible for the largest IT system within the Ministry of Defence. I helped develop the system throughout its software lifecycle. I worked on both the front-end and back-end of the system during development phase within various teams that focused on different areas of the web application. The project was a web-based asset management system to handle all vehicles within the Army. The IT system was built mainly with J2EE, core Java and Hibernate. I used HTML/JSP's, XML, JavaScript and AJAX to build the user screens for the application. Part of my role was to build a mobile version of the application to be used in the 'field'. It was necessary to use Java to synchronize the data between the mobile and main application, whist using JMS with ActiveMQ to handle message passing between different applications.

EDUCATION

Royal Holloway, University of London, Egham, UK   **Sept 2010**
MSc Information Security (Part Time) – Did not complete but may continue in the future
Courses: Cryptography, Security Management, Computer Security, Network Security, Software Security, Database Security.

University of Aberdeen, Aberdeen, UK   **Sept 2004 – June 2008**
BSc (Hons) Computing Science
Honours Project: Packet Sniffer in Java and Datagram Congestion Control Protocol (DCCP) Analysis
Courses: Advanced Distributed Information Systems, Software Engineering, Graphics, Operating Systems, Formal Models of Computation, Formal Languages & Compilers, Database Systems

INTERESTS

I regularly attend the gym. I am an active sportsman who likes to play football, rugby, cricket and golf in my spare time. In 2009 and 2010, I was the 2nd XV Captain for the Guildfordians Rugby Club.

Professional Certificates

AWS Certified Solutions Architect - Professional (3rd May 2019)
AWS Certified Solutions Architect - Associate (3rd May 2019)

References available upon request