

## Professional Experience

Aug 2017 - Present • **Deutsche Telekom Pan-Net s.r.o** • Bratislava, Slovakia

Deutsche Telekom Pan-Net provide a pan-european telecommunications NFVI infrastructure platform that hosts the Virtual Network Functions (VNFs) and supporting applications that back the business services of various DT subsidiaries. Slated to be the single production platform for telco scale and grade applications, Pan-Net utilizes both innovative and best-of-breed cloud technologies and industry practices to pioneer, improve and evolve the DT product line.

### Infrastructure Engineer, NFVI CICD

*Skills:* CI/CD, GitLab, GitHub, JFrog Artifactory, git • Ubuntu/CentOS, OpenStack, Kubernetes • nginx, Apache Tomcat, Postgresql • Ansible, Terraform, Python, bash

- Part of the CI/CD team tasked with the design and DevOps of services to sustain build and delivery pipelines of applications and infrastructure within the NFVI/Cloud platform. e.g. *JFrog Artifactory, Gitlab, Gitlab Runners, GitFlow*
  - Supporting internal teams in designing their CI/CD pipelines, git branching and release strategies, CI/CD/CT processes, Application Orchestration and QA/QE/DevSecOps. i.e. *Production Factory Pipelines, Agile Service Delivery*
  - Integration, designing and maintaining geo-redundant highly available CI/CD services applications atop the Pan-Net Openstack clouds. e.g. *GitOps/SRE, Ansible, Terraform, Python, GitLab runners*
  - Participating in production campuses, design workshops, post-mortems.
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Oct 2015 - Jun 2017 • **Box+Dice** • Bratislava, Slovakia

Box+Dice provide a unique CRM platform for real estate businesses to manage property portfolios, marketing and lead management, sales and accounting, portal integrations, etc in realtime. With over 250 businesses as clients across Australia and New Zealand, Box+Dice leverages in-house and customer domain expertise along with cutting-edge software and cloud technologies to deliver innovative solutions.

### Senior Systems Engineer, Site Reliability Engineering

*Skills :* Amazon ec2/AWS, XenServer/Xen, KVM, Docker • Debian/CentOS Linux • nginx, CloudFlare, CloudFront • MySQL/MariaDB, Postgresql, ElasticSearch, RabbitMQ, Redis • git, Github, Jenkins • Ansible, Bash, Ruby • CloudWatch, Icinga • JIRA, Kanban, Mentoring

- Lead systems engineer managing site reliability engineering; systems analysis, design and development, improving platform availability and operating procedures.
  - Delivering on projects to modernize infrastructure, lift-and-shift platform services to public cloud (AWS), VPC design, improving utilization, efficiency, security and technical operations.
  - Working in cross-functional contexts with Quality Engineering and Operations; improving CI/CD processes, communications, testing, DevOps.
  - Involved in defining and project managing systems strategy, participating in executive committee decision making, cost management, hiring, mentoring.
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Jul 2010 - Aug 2015 • **Citrix Systems UK Ltd** • Cambridge, United Kingdom

Citrix solutions power business mobility through secure, mobile workspaces that provide people with instant access to apps, desktops, data and communications on any device, over any network and cloud. With annual revenue in 2014 of

\$3.14 billion, Citrix solutions are in use at more than 400,000 organizations and by over 100 million users globally.

*Skills* : Apache CloudStack/Citrix CloudPlatform • XenServer/Hyper-V/ESX • Citrix XenDesktop • Windows Server 2008/2012/2016, 2003 • Windows 7/8/8.x/10, XP/Vista • SQL Server 2008/2012/2016 • PowerShell/.NET • Debian/CentOS Linux • Puppetlabs Razor/iPXE • Perl, Bash, Ruby, Python • HP ProLiant, Dell PowerEdge • Dell Compellent, HP StorageWorks • Cisco 2960s/g/x, Nexus

*Oct 2013 - Aug 2015 • Senior Software Test Engineer, Engineering Productivity*, Enterprise Desktop and Apps

- Systems Architect/DevOps Engineer of a self-service private IaaS cloud (based on Apache CloudStack/XenServer) to enable dev/test ad-hoc and continuous-testing strategy of 65+ internal teams.
- Building DevOps practices to manage cloud offerings for infrastructure and test; automating provisioning of compute/storage/networking, bare-metal/virtual OS installs, application and test profiles.
- Solving and automating virtual disk image creation and cataloguing strategies for 800+ Windows (Desktop, Server, SQL) and Enterprise Linux (SuSe, RHEL, Ubuntu) OS combinations for cloud (CloudStack, Azure) and traditional virtualization (XenServer, ESX, Hyper-V).
- Member of the core automation team with remit to develop and support the test automation framework and library code that underpins QA strategies of the Citrix Desktop and App virtualization suites. Lead developer for the Perl component to support testing Linux and Mac end-points.
- Other activities included technical support, triage and troubleshooting of, often complex, full-stack issues; refining agile practices for code and infrastructure evolution, setting up the infrastructure for customer demos/Citrix Summit, hardware procurement and maintenance, technical training, etc.

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*Apr 2012 - Oct 2013 • Associate Software Test Engineer, Engineering Productivity*, Enterprise Desktop and Apps.

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*Jul 2010 - Apr 2012 • Software Test Engineer, Test Automation*, XenDesktop Engineering.

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*May 2007 - Dec 2007 • Crystal Amusements Ltd • Leicester Square, London, United Kingdom*

#### **Systems Administrator/Support Engineer**

*Skills* : Systems Administration, Network Design & Administration, Rollouts, Customer Support

- Lead TechOps of 90+ internet/games kiosks, printing solutions.

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*Jan 2007 - May 2007 • Sterling Limousines (UK) Ltd • Richmond, Surrey, United Kingdom*

#### **LAMP Developer, Perl/Postgres**

*Skills* : Perl, Apache/mod\_perl, PostgreSQL 8, Debian Linux, xHTML, CSS, Prototype JS, Bash, Mercurial

- DevOps of online booking systems.

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*Aug 2002 - Oct 2006 • Freelance IT Engineer • Greater London Area, United Kingdom*

#### **IT Contractor**

*Skills* : Enterprise workstation migrations, LAN Design and Implementation, Hardware/Software roll-outs.

- Freelance engineer.

## Technical Experience

Proficiency from left-to-right, right-leaning technologies are more from exposure/interest.

Cloud : Canonical Openstack, Amazon ec2/AWS, Apache Cloudstack, DigitalOcean, Microsoft Azure

Containers : docker, docker-compose, Kubernetes, Consul

Virtualization : Citrix XenServer, KVM, Xen, Oracle VirtualBox, Microsoft Hyper-V, VMWare ESX/vSphere

Operating Systems : Debian/Ubuntu, CentOS/RHEL, Microsoft Windows Server 2003/2008/2012/2016, FreeBSD 9/10

DevOps/CICD : Ansible, Terraform, GitLab CI, JFrog Artifactory, Travis CI, Thor/SSH, Chef,

Scripting : Bash/POSIX Shell, Python, Ruby, Perl, Powershell/.NET, Perl6, Javascript, Java,

Markup : YAML, JSON, HTML, XHTML, XML, CSS

Databases : Postgres 8/9, MariaDB 10/MySQL 5, Elasticsearch, CouchDB, SQLite 3, SQL Server

Networking : TCP/IP (IPv4 & IPv6), DNS, DHCP, HTTP, Network Design, Cisco Routing & Switching, VLANs, VPNs, Citrix NetScaler, NFS, LDAP, iSCSI, Samba, SDN

Monitoring : Icinga2/Nagios, Graylog2, Cacti, New Relic, Scout, LogStash, Collectd, Tick Stack

Web/CDN : nginx, Cloudflare, CloudFront, Apache httpd, Ruby on Rails/Rack, Dancer2/PSGI/Plack, Citrix NetScaler, SOA/REST

Source Control : git, github, Jenkins, Perforce, Mercurial, CVS, diff/patch, Checkinstall

Provisioning : Puppetlabs razor, PXE/iPXE, kickstart, preseed, WinPE, autoyast, vagrant

Hardware : Dell PowerEdge, HP Proliant, HP BladeSystem

Storage : Swift/S3, Dell Compellent, NetApp FS 2000, HP StorageWorks, Nexenta, QuadStor, NetGear ReadyNAS

## Education

**Sep 2008 - May 2010 BSc, Computer Networks (1:1, First Class Honours)**, Sheffield Hallam University, Sheffield, England

**Jul 2000 - Mar 2001 BSc (Hons.) Computer Science, Mathematics, Physics (Discontinued)**, St. Joseph's College of Science and Arts, Bangalore, India

## Training and Qualifications

- Docker + Kubernetes Administration, *May 2018*
- OpenStack Deployment and Advanced Administration, *Feb 2018*
- OpenStack Administration, *Sep 2017*
- Citrix NetScaler - Essentials, Networking and Administration, *Jun 2012*
- Building Scalable Cisco Internetworks (CCNP BSCI), *Feb 2004*
- Cisco Certified Network Associate (CCNA), *Mar 2003*
- Implementing & Administering a Microsoft Windows 2000 Directory Services Infrastructure, *Apr 2003*
- Implementing & Administering a Microsoft Windows 2000 Network Infrastructure, *Apr 2003*
- Administering Windows 2000 Server, Microsoft Certified Professional (MCP) *Mar 2003*

- Administering Windows 2000 Professional, Microsoft Certified Professional (MCP) *Mar 2003*
- Network Infrastructure Administration, CompTIA® Network+ Certified Professional, *Feb 2003*
- Hardware and Software Essentials, CompTIA® A+ Certified Professional, *Nov 2002*
- Advanced Java, Network Programming using EJB, Servlets/RMI, JDBC/SQL, *Jul 2001*
- Web Design using Microsoft FrontPage 2000, HTML, VBScript and Javascript, *Jan 2001*
- Procedural Programming with ANSI C, *May 1999*

### Professional Membership

**Jul 2010 - Present** The Institution of Engineering and Technology (IET) (*Graduate Member*)

**Dec 2008 - Present** British Computer Society (BCS) (*Member*)

**Jan 2008 - May 2012** Microsoft IT Advisory Council (ITAC) (*Member*)

### Languages

English (Fluent), French (Limited Proficiency), Slovak (Basic)

### Hobbies and Interests

Travel, Exploring • Outdoors • Music, Guitar • Badminton, Table Tennis • Amateur Photography • Tech. news, conferences, events • #freenode IRC OpenSource Community • Hacking Debian/Raspberry Pi for fun

### Personal Details

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**Nationality** British

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