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PROFESSIONAL PROFILE
Professional software/hardware QA and test engineer with over 20 years of experience working closely with different teams to effect the delivered of high quality products to customers.

KEY SKILLS
- Test Automation,
- Software testing,
- Acceptance, Unit, Performance and Integration testing,
- Test development writing test plans, test cases and test suites,
- Agile Project life cycle development,
- Web technologies (TCP/IP, https, UDP, ICMP, etc),
- Test Frameworks, pytest, Tavern,
- Python (Programming Language) and familiar with many others,
- Investigation and reporting of product defects,
- Testing and tooling in and for a SaaS platform,
- Docker, Kubernetes, Azure, GKE, EKS, K3S
- CI/CD tools Jenkins, ArgoCD, git, GitHub, K3S
- Development/Collaborations tools Perforce, Confluence, MoinMoin, Bugzilla, Jira and Zulip,
- Previous hardware/embedded testing (GPS/WiMedia/CDMA).

EMPLOYMENT HISTORY

Staff QA Engineer , Ivanti (October 2020 – June 2022)
Ivanti Neurons for Zero Trust Access, SaaS network access solution for running applications. Continued support for vTM.
- Responsible for continuing ZTA (Zero Trust Access) platform testing and feature validation.
- Develop test strategies, test cases and infrastructure for new features during development.
- Develop and test improvements for python test tools and libraries used in support of testing ZTA platform deployments.
- Built test cases using different frameworks (PyTest or Tavern) for Docker to be deployed for in-cluster-deployment testing.
- Creation of Kubernetes clusters with Terraform for performing deployment and product testing.
- Deploy platform services as needed for testing using native Kubernetes tools, in-house tools or ArgoCD for long running deployments.

Senior QA Engineer , Pulse Secure (October 2018 – October 2020)
Pulse Secure purchased the suite of products formally from Brocade including the StealApp formally the vTM. Pulse Secure started work on the Zero Trust Access platform in 2019 of which the Cambridge office contributed the build of the Platform and foundation services as well as the Continuous build and Integration platform and test tools.
- Responsible for continuous testing for traffic manager product.
- Develop testing strategies for new features working along side development teams in estimating work.
- Responsible in helping to develop testing strategies for use in/with Kubernetes.
- Created Kubernetes clusters with Terraform for cluster management.
- Deploy platform services as needed for testing using native Kubernetes tools, in-house tools or ArgoCD for long running deployments.

QA Engineer , Brocade Ltd (October 2016 – September 2018)
Brocade purchased
- Responsible for continuous platform testing and feature validation.

QA Engineer , Riverbed Technologies (October 2014 – September 2016)
Riverbed purchased Zeus in 2011, Cambridge team remain in place and ZTM becomes Virtual TM
- Responsible for continuous platform testing and feature validation.
- Responsible for helping to deploy Jenkins for automated build and testing.

Software QA Engineer , Zeus Technology Ltd (October 2010 – September 2014)
Software startup originally the creator of the Zeus Web server which then moved on create the Zeus Traffic Manager; a scalable, highly available application load balancer with build-in traffic management capabilities
- Responsible for regular manual testing Zeus Traffic Manager.
- Responsible for working with development teams to create and write automation tests in Perl.
- Work with development teams to write test plans for new or improved features.

Hardware Test Engineer , Artimi Ltd (October 2006 – September 2008)
Artimi was fabless semiconductor company specialised in delivering high speed wireless connectivity based on WiMedia UWB radio.
- Provided the system test group with software test solutions increasing testing capacity and improve product quality.
- Development of PC software performance evaluation tools for Windows XP/Vista and UNIX using C/C++ and Python.
- Conducted UWB MAC protocol compliance testing and analysis contributing to the company's continual award of WiMedia Platform certification.
- Responsible for running and maintaining Python compliance tools used in post analysis of WiMedia/ WUSB protocol.

GPS Test Engineer , NemeriX Ltd (March 2005 – October 2006)
NemeriX was fabless semiconductor company specialised in ultra-low-power and high performance GPS solutions.
- Contracted to provided the Cambridge office with a complete GPS test environment, enabling product quality testing, customer support and development debugging.
- Unix AWK combined with Python used in testing and data analysis for MATLAB

Support technician , Qualcomm Inc (March 1997 – July 2002)
Of the many divisions within Qualcomm, at the time I was working on the Globalstar project (A CDMA satellite based wireless communications system) that built and maintained ground based equipment and LEO satellites constellation. Another division I worked in was HDR (Wireless High speed Data Rate 1xEV) after Globalstar was finished.
- Responsible for building hardware subsystems racks.
- Responsible for the configuration and maintenance of lab equipment.
- Responsible for developing software tools for interfacing with a data routing and configuration sub system.
- Responsible for software and hardware testing in the HDR (Wireless High speed Data Rate 1xEV).

EDUCATION

BA (Hons) 2:1, Computer Science, Anglia Ruskin University (September 2002 – July 2005)
- BSc Project "Non-Blocking Synchronisation" - Final year project was to write critical analysis research paper discussing "concurrent programming, synchronisation techniques". The focus of my critique was to examine a lock-free proposal introduced from a Cambridge Phd paper as an alternative to common mutual exclusion techniques in use at the time that did not rely on direct CPU support.

Professional Certificate in UNIX, University California San Diego (September 1998 – July 2001)
UNIX Systems Administration and Shell programming

ADDITIONAL SKILLS

- Previous volunteer work for local rowing club helping with its IT systems,
- Enjoy playing Piano and Guitar,
- Sports I am regularly active in include rowing and sailing.

NATIONALITY AND STATUS

- USA National
- Lived and worked in the UK since 2002
- Valid Residence Card holder - Work permitted indefinite leave to remain