



Stephen King

Python Developer

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📍 Exeter, Devon, UK

Summary

A true versatilist archetype with a classical education in pure science. Having worked in software development since 1998 and specifically with python for 13 years I have a proven record of improving process performance by implementing new ideas, automation and generating new tools. A self motivated, proactive, self starter with ability to use initiative, innovate and operate autonomously or mentor and collaborate with team members.

Key Skills

- Python
- Git
- FastAPI
- Ansible
- Automation (Networking, CI/CD, QA)
- Networking
- Linux
- Docker

Education

- MSc. Biochemistry, University of Reading.
- BSc. Biochemistry with Chemistry, University of Reading.
- 'A' Levels: Physics, Chemistry, Pure Mathematics and Biology.

Professional Qualifications

- Cisco: CCNA, CCNP, CCDA, CCDP.
- Citrix: CCEA, CCA.

Employment History

Python Developer, Xilinx Technology *(May 2020 – Jul 2023)*

- Developed and built internal tools to improve development efficiency and workflows and provided automated solutions to test quality of 10-100 Gb Ethernet adapters and switches.
- Designed, built, monitored and maintained tool chains for critical functions and various dashboards.
- Identified roadblocks and inefficiencies in existing ecosystems and implemented processes/tools to remove them.
- Developed python scripts to automate development and testing infrastructure utilising libraries Nornir, Paramiko, Netmiko, Napalm and Fabric along with Ansible and Vagrant.

Self employed *(Oct 2019 –Apr. 2020)*

- Designed from scratch the hardware and software for an original IoT project.
- Investigated the many aspects of commercial IoT projects including legal and manufacturing requirements.
- Conducted performance testing of numerous Single Board Computers to evaluate computational and power requirements.

- Fabricated a final fully operational prototype demonstrator utilising Keras / Tensorflow and OpenCV Python libraries with a Django management interface.

Career Break *(Jan. 2019 –Sep. 2019)*

Time taken to renovate house and relocate.

Software Engineer, Qualcomm *(Aug. 2016 – Dec. 2018)*

- Debugged issues with the Python framework and test code; defined and fixed bugs found. Developed new features of the test framework.
- Ensured Python environments were up-to-date and compatible with the latest language developments, and with other environments used across the company with which it interfaced.
- Supported colleagues with Python test code development. Providing training for new users of the framework and database.
- Managed software roll-out across multiple systems. Defined and developed new automation tools to make testing and debugging more efficient.
- Converted and updated legacy Python scripts & libraries from version 2 to 3.

Python Automation Engineer, Cisco *(Jul. 2011 – Aug. 2016)*

- Designed, developed, coded and debugged automated environments for both Development and QA departments which had a large impact on the agile Kanban two week cadences.
- Supported DevOps by providing tooling, monitoring dashboards and process automation.
- Automated microservice deployment by providing Ansible playbooks, Puppet manifests, Python scripts and Linux shell scripts.
- Supported a challenging microservice infrastructure utilising a multitude of technologies including: Oracle and Vertica DB's, CouchDB, Memcached, Squid, ETL, ActiveMQ, Redis. Virtualized environments were provided by Vagrant, VMware, VirtualBox and KVM. Containerization was provided by Docker. CI/CD was provided by Jenkins pipelines along with Git.
- Provided monitoring with the aid of ELK Stack, Grafana, Graphite and Prometheus.

Python QA Engineer, Solarflare Communications *(Mar. 2010 – Jun. 2011)*

- Developed and coded an automated test framework in python which along with open source & commercial tools were used to verify performance and protocol functions of 10Gb network devices.
- Created Test specifications from IETF RFC specifications for protocol verification and subsequent automation by utilising various Python libraries.
- Developed and supported various dashboards created with the Django framework.

Automation Engineer, 3Com *(Feb. 2009 – Jan. 2010)*

- Tested all functional and non-functional aspects of CentOS embedded software on a unified security platform, encompassing firewall, Router, web filtering, spam filtering and anti-Virus functionality.
- Utilised Spirent Smartbits packet generators, Avalanche traffic generators and automated tests with Python, Perl and Tcl.

Technical QA Team Leader, Citrix *(Dec. 2005 – Dec. 2008)*

- Completed many diverse full life cycle testing projects including release 4.5 of Presentation Server, XenApp, XenDesktop, XenServer and Edgesight products.
- Partial automation of the test environments were delivered with C#.

Full Career history available upon request.

Latest CV: https://raw.githubusercontent.com/stephen-ra-king/cv/main/Stephen_King_CV.pdf

Version: 0.1.3



FAQ's for Recruiters

- Q01. What position are you looking for?
A. Any position that uses Python as the predominantly the main required skill: Python developer, DEVOPS, SDET, SRE, Automation Engineer, QA Automation, CICD Automation etc.
- Q02. Do you need a visa to work in the UK?
A. No. I am a UK citizen.
- Q03. What type of work are you looking for (contract or permanent)?
A. I am considering all types of positions at the moment.
- Q04. What salary or rate are you looking for?
A. Market rates: I would prefer to have a look at the job specification and the proposed salary or rate and then I can judge if it is fair.
- Q05. Are you considering on-site, hybrid or remote working?
A. Due to my location I would prefer fully remote. However hybrid is possible but is determined by the number of required on-site days.
- Q06. Why did you leave /are you leaving company X.
A. This is not relevant. I will not be responding to any obvious phishing attempts for information regarding current or previous employer.
- Q07. What is your current rate or salary?
A. This is not relevant to future positions. See Q04 above.