

# Prem Karat

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**SUMMARY** Experience in testing Linux kernel, Linux KVM & Openstack and automate tests using Python.  
Have contributed to various open-source projects.  
<https://github.com/premkarat>

**SKILLS** Linux Kernel, Python, Linux KVM.

**EXPERIENCE** **Cavium (MontaVista Engineering)** **Jan 2014 – Till Date**  
Senior Test Lead (Test Architect)

Designed & developed next-gen, open-source, test automation framework & suite, mvtest, based on pytest. Experience in design, development and automation of tests for various Carrier Grade Linux features. Authored technical papers on IPsec-IKE, Leapsecond testing, kASLR & performance testing. Experience in testing MontaVista Linux distribution (CGL MSD) on x86-64, arm, ppc & mips.

open-source contributions:

1. vDSO randomization proposal for MIPS (<http://www.spinics.net/lists/mips/msg50555.html>)
2. Leap second testing (<https://github.com/premkarat/leapsecondtest>)
3. ANSI support for pytest-html (<https://github.com/pytest-dev/pytest-html/pull/81/commits>)
4. mvtest (<https://github.com/premkarat/mvtest>)

**IBM** **May 2005 – Dec 2013**  
Linux KVM Test Architect

IBM Linux Technology Center (2010 - 2013): Test architect & team lead for testing Linux KVM & Openstack on pre-GA RHEL & SLES distributions. Also lead the linux internal support team and have experience in debugging and resolving bugs raised on RHEL, SUSE & Fedora pre-GA distributions.

open-source contributions:

1. Openstack tempest ([http://stackalytics.com/?release=all&user\\_id=prem-karat](http://stackalytics.com/?release=all&user_id=prem-karat))
2. autotest (<https://github.com/autotest/autotest/commits?author=premkarat&since=2012-01>)
3. mount helper for 9p (<http://marc.info/?l=v9fs-developer&m=131229409901652>)
4. Linux kernel patch for 9p bug fix  
(<http://lkml.indiana.edu/hypermail/linux/kernel/1105.1/01512.html>)

IBM Rational Labs (2005 - 2010): L1, L2 & L3 customer support engineer for Rational DOORS & directory server. Experience in handling Defense & Aerospace customers across the globe (US, EMEA & APAC).

Joined IBM via acquisition of Telelogic

**Indian Institute of Technology, Jodhpur (IIT Jodhpur)**  
Guest Lecturer (IBM University Relations)

**Dec 2012 – Dec 2012**

Delivered guest lecture on Linux KVM & Openstack and thereby contributing to an academic module for a two credit course titled '63201 Cloud Computing Theory & Technologies'.

**Dell**

Senior Technical Support Associate

**Jun 2004 – May 2005**

**Allsec Technologies**

Customer Support Associate

**Jan 2003 – May 2004**

## EDUCATION

**National Institute of Technology Silchar (NIT Silchar)**

Bachelor of Engineering (B.E.) in Electronics and Telecommunications

**1997 - 2002**