Roshan Piyush

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Education

Year	Degree / Certificate	Institute / School	CGPA / %
2010-2014	B-Tech, CSE	National Institute of Technology, Calicut	8.13 (of 10)
2009	CBSE, Senior School Certificate / +2	Jawaharlal Nehru Memorial SS, Dhanbad	68%
2007	ICSE, Secondary School Certificate	De Nobili School, Chandrapura	90%

Key Skills

Languages	C, C++, Python, shell scripting, Core JAVA, MIT-Scheme(LISP)
Web Development	HTML, CSS, SASS, JavaScript, Bootstrap, PHP
Frameworks	Django, Rails, Drupal
Databases	MySQL, Oracle
Version Control	GIT
Operating Systems	GNU/Linux, RHEL, Windows7, Vista, XP, BackTrack4, Android
Security	Reverse Engineering, Vulnerability Assessment, Security Hardening

Employment History

Company:	Oracle India Pvt. Ltd. (Server Technologies)	**Jun, 2014 – Present**
Position:	Member of Technical Staff (Software Developer 2)	
Role:	Database Security, Security Tools development, Vulnerability Assessment	

B-Tech Project   2013-2014

Role	Team leader
Aim	Live Migration of Virtual Machines using Data De-duplication and Two Phase Technique.
Details	Live Migration has three major performance metrics: i) Migration Time ii) Downtime iii) Migration data. This new approach to Live Migration implemented on XEN-hypervisor reduces the amount of migration data transferred and thus reducing the migration time slightly due to computationally intensive process of De-duplication which effects the migration time.
Technologies Used	XEN-hypervisor, C, C++
Repository	https://github.com/piyushroshan/xen-4.3.2.git

Other Projects

Vulnerability Assessment:
- Testing the institution website for vulnerabilities.   **Jan, 2012 – May, 2014**
- Handling security issues with institution webservers under the guidance of
  Prof. Vineet Paleri, Department of CSE.

Web Developer:
- Designed a Resource Management System for CSED, NITC **(Django, HTML, CSS, JQuery, JavaScript).** https://github.com/cseanitc/RMS.git   **Oct, 2013 – Apr, 2014**
- Designed a web console for Bash Scripting event, Tathva '12 **(Python, HTML, CSS, Jquery, JavaScript, Datastore).** https://github.com/piyushroshan/tuxofwar2012.git   **May, 2012 – Feb, 2013**
- Designed website of TEDxNITCalicut 2013 (an independently organized TED event) **(Django, HTML, CSS, JQuery, JavaScript, SQL).**   **Sep, 2012 – Oct, 2012**
  https://github.com/piyushroshan/tedxnitcalicut.git

App Developer:
- Developed an Android application for Tathva '12 participants to keep track of events.   **Oct, 2012**

Course Projects:
- SIL: A Simple Integer Language compiler as part of Compiler Lab **(LEX/YACC).**   **S6 – Winter Semester**
  https://github.com/piyushroshan/compilerlab.git

Internship	May, 2013 – Jul, 2013
Role	Team leader
Aim	Develop a *MOOC Prototype Course Studio Framework* for IIT Bombay.
Details	Enhancing features of edX-Studio and guiding and leading a team of 15 people, in collaboration with edX, a non-profit company by MIT and Harvard University under the guidance of Prof. Deepak B. Phatak, Department of CSE, IIT Bombay. Features implemented and worked on were *advanced course search, course categorization, video tagging, discussion forums and notification system, automated setup script, and handling proxy authentication.*
Technologies Used	Django, JQuery, JavaScript, SASS, Rake, GIT, MongoDB
Repository	https://github.com/IITBinterns13/edx-platform-dev.git

Awards / Achievements

- Outstanding Performance (Thank You) Award by Bruce Chang (Vice President of Database Tools Development, Oracle) within seven months of my employment.
  Fastest and youngest one to receive a Thank You Award in Oracle.

Certifications / Workshops

Certified Information Security Expert	Innobuzz Knowledge Solutions	Certification No.: 23908
Advanced Ethical Hacking	Kyrion Digital Securities	Tech-Fest : Tathva'10
Cloud Computing Workshop	Green Add+	Tech-Fest : Tathva'11

Extra-Curricular Activities

- Lab Administrator for Software Systems Lab, Computer Science and Engineering Department.
- Senior Executive at Computer Science and Engineering Association (CSEA), NITC.
- Organizer at TEDxNITCalicut. (An independently organized TED event).

Interests and Hobbies

Interest	System Programming, System Security, Virtualization
Hobbies	Basketball, Badminton, Chess, Fiction movies

Strength and Weaknesses

Strength	Leadership skills, Self-confidence, Optimism and Hard working
Weaknesses	Work-Life balance

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.