Curriculum Vitae

Vimal Kumar

Mobile: +91-7022310981

Email: viml828@gmail.com

Career Objective:

To pursue for challenging career in testing, scripting and test automation

Experience: 12 Yrs in software development & testing using c++/python/javascript

Skillset:

Languages : C++/Qt, Python, Perl

Linux : gdb, valgrind, shell, sed, awk

IPC : dbus, socket, signal/slot

IT Experience:

1) KPIT (11Apr16-Present)

client: zf/trw

role: project leader

projects: 1)ften(bluetooth phonebook) 2)atest port testing

skills: python, eclipse, pdb, django, django-rest-framework, angularjs

2) HP(parent company ISS) (15Jun15-7Apr16)

client: wells fargo

role: senior consultant technology

projects: 1) HP SA AI 2) ORM ETL solution

skills: python, shell(bash, sed, awk, perl)

3) Accionlabs (27Aug14–5May15)

client: Rackspace

role: principal consultant

projects:

a)automation integration

b)mango(mobile access network for global opportunity)

skills: python, eclipse, pdb, django, django-rest-framework, angularjs

4) Mphasis an HP company (7Nov11-3Dec13)

client: HP

role: project leader–systems

projects: 1) active health system webgui 2)ssdu(smart storage diagnostic utility)

skills: java, gdb, bash, python, eclipse, pdb, jquery

5) KPIT (Apr10—Nov11)

client: 1)hyundai-mobis 2)continental

role: technical leader

projects: 1)linuxavn 2)electronic brake system

skills: c++/qt/qml, gdb, bash, python, perl

6) Polycom R&D India (P) Ltd (Apr08–Feb10)

role: senior software engineer(module lead)

projects:

1) vvx1500 ui development with qt/linux

2) development of perl scripts for sip automation team

3) rockpile oem automation

skills: perl, cpan, python, javascript, html, qt/c++

7) verizon (Sep06–Mar08)

role: senior analyst

projects:

1) vmobile simulator

2) awas (automated work force administration system)

3) netgate

skills: bash, perl, c++, gdb, make, html, css, javascript, xml

8) IBM (16Jan06-15Sep06)

role: software engineer

projects: 1) CFSW(configurator for software)

skills: c++, gdb, make, bash, awk, perl, python

9) Innominds software (p) ltd (8Aug05-31Dec05)

client: nokia internet communications, hyderabad

role: senior software engineer

projects: vnp webgui

skills: c, tcl, linux(freebsd), vi, cscope, javascript, html/css

10) Integra micro systems (p) ltd (17Feb04-16May05)

client: 1)palm-blackberry 2)motorola

role: software engineer

projects:

1)rim client(blackberry web services) on palm handheld

2)gwsimulator for phone testing

skills: perl, tk, cpan, bash, vi, c++

Educational Qualifications

B.E. in mfg process & automation (Jul96-May00)

netaji subash institute of technology (formerly: delhi institute of technology)

delhi university

B.E - 64.3%

intermediate (10+2) - 70.4%

ssc (10th) - 77%

project experiences

1) kpit (11Apr16–present)

projects :

a)ften : bluetooth phonebook sync (11apr16-30sep16)

tasks :

1) encoding & decoding support for multilanguage vCard

tools & language:

redmine, unipro, c++, eclipse ide, linux (vi, cscope)

b) zf-trw : atest port testing:(1nov16-1sep17)

1) understanding client requirements and design diagrams

2) discussing with client for unit tests lists and functions lists to be implemented

3) helping team for writing, debugging, running unittests.

4) generating html test report of unittests

5) get unittest reviewed by customer.

6) verifying all new functions are passing related unittests.

tools & language: redmine, eclipse, python

2) hp(parent company iss) (15Jun15-7Apr16)

client: wells fargo

projects: 1) HP SA Pre/Post Patching Scripts 2) orm etl solution

a)hp sa pre/post patching scripts

responsibilities: leading and development with team of 3 members.

tasks : 1)refining pre/post checks & actions defined in playbook.

2)implementing & automating steps required in pre-patching & post-patching using shell script

3)running, testing these scripts in hp sa tool & linux/solaris terminals.

skills used : 1)bash 2)sed 3)awk 4)python

b)orm etl solution

responsibilities: leading and development with team of 3 members.

this solution load data from hp server automation into wells fargo compliance reporting database.

tasks :

1) doing r&d for setup of : python2.7, virtualenv, pyodbc, unixodbc, cx\_Oracle in uat & integration server.

2) developed python code for :

a) connecting to ai vertica db

b) quering ai database for fetching records after date saved in control file.

c) querying for records for ari those got failed to insert last time.

d) inserting/syncing these fetched records in oracle crdb.

e) for successful insertion tracking in passed\_record.csv

f) for failed insertion tracking in failed\_record.csv

3) non functional requirements:

a) sending notification email (mailx) for exceptions in connections, insertions etc.

b) scheduling loadaudit, auditmail jobs using crontab

skills used: python , shell(bash, grep, sed, awk), scheduling(crontab)

3) accionlabs (27Aug14–5May15)

client: rackspace

role: principal consultant

projects: a)automation integration b)mango c)aric

a)automation integration : it is a cluster of python webapps developed in django framework.

using these applications products(software/hardware) in data center are allocated/released/managed

using webgui.

resources (hardware) : servers-machines, switches, lan

resources (software) : databases, webservers, fileservers, dns-server, dhcp-server

using python-django middle ware information for resources are fetched from rest-api urls.

rest api is consumed in angularjs to populate webgui controls (lists,textboxes,etc)

tools & ide : eclipse, python, django, django-rest-framework, notepad++

b)mango(mobile access network for global opportunity)

role: design, coding, task management

framework: django, python, postgresql, sqlite3, jinja2, tastypie

tools used: task coach, eclipse, sublime-text, beyond compare, git, bash

description: mango(mobile access network for global opportunity) is group of integrated applications

to serve contents created in drupal cms to mobile end users.there is python middleware interacting

with drupal-cms in backend to get contents by sending rest request to drupal cms rest server and

passing nodeid of content in request. once requested contents are received , then python/django middleware

formats content to deck of cards format. card format is good to get displayed on end user's mobile.

learning/broadcast cards created in django & served these to mobile users using tastypie rest plugin.

4) mphasis an HP company (7Nov11-3Dec13)

role: project leader(systems)

projects:

a) ahs(active health system) webgui: this tool helps user to monitor health of hp storage in browser.

team-size : 4 , responsibilities : development , team handling

it is developed using mvc framework (python, django, postgres).

data-aggregation : informattion of storage server is retrived using http hooks.

these hooks returns json/xml response. these responses are parsed.

parsed values are binded to insert queries to insert in ahs database(postgres)

using parsed values models are populated.

change in models are reflected in change in views.

ahs web access is used as ilo (instant light on) facility.

ahs ilo provides access to soulapi in browser

responsibilities:

1 development (language: python, framework: django, ide : eclipse)

2 code review

3 maintaining wiki for lessons learnt.

4 tacking team members task status in task coach tool

5 helping team members to understand requirements & giving training for required skills.

6 maintains weekly status report of team members & sending to client

tools & skills used: eclipse, python(django), javascript/html/css in sublime-text

b) ssdu(smart storage diagnostic utility) : team-size : 2

it is command line utility used by production support teams for diagnosis of

hp storage servers & hp smart array controllers.

these controllers controls hp storage servers(g8) & dan-electro servers

responsibilities:

1) development, testing, debugging (language: java, ide: eclipse)

5) kpit (Apr10—Nov11)

designation : technical leader

a) linuxavn infotainment project (hyundai-mobis)

linuxavn(audio-video-navigator) project is infotainment project for avn device for cars.

linuxavn target runs linux kernel on mips architecture.

responsibilities:

1) understanding requirements & model diagrams in enterprise architect.

2) implementation & development of screens using qml.

3) integrate backend components (audio player, video player) using qtdbus.

4) developments of qml plugin library in qt/c++ which instantiates proxy reference for above components.

5) cross compiling project for mips architecture & flashing it on target device.

6) manual testing on target.

7) integrating tslib with qt.

8) qt gui source code change to send gestureid from multi-touch screen to widgets.

tools & ides used: qt, qml, qtdeclarative, qt creator (qmake & qml engine )

enterprise architect for modeling. ubuntu 10.04 , kermit, uboot

cross compiling using open embedded & bitbake.

version control using git.

b) ebs (electronic brake system , continental):

1) ebs test script (tcl scripts) : team-size : 5

role: technical leader

responsibilities:

facilitating meetings for team. this includes (preparing, moderation, postprocessing)

running & reviewing python test scripts.

2) script-generation tool using python, lxml, jinja2 : team-size : 1

role: developer

responsibilities:

development (coding & testing)

this tool used to parse ebs\_configuration.xml to collect required information in dictionaries.

ebs\_dict is passed to jinja2 template file ebs\_test\_script\_template.tcl to generate test script.

6) polycom r&d india (p) ltd (apr08–feb10)

role: senior software engineer(module lead)

projects:

a1) vvx1500 ui development with qt/linux

role:

a1) design & development of sip application user interface

os: linux montaVista, ui framework and api: qt 4.5, ui modeling pattern: mvc(model view controller)

designed uml diagrams (class diagrams, interaction, sequence diagrams, activity diagrams)

1) new call screen (idle screen)

2) call offering screen (answer screen)

3) end call screen

4) main menu screen

5) call log screen: missed calls, received calls, and placed calls

6) admin setting screen

7) network settings screen

a2) modeling & porting of spip screens to video phone vvx1500 & ssip

(Sound Station IP Phones) by using qt creator.

a3) developing python scripts to automate unit testing for call related unit tests.

tools used: qt creator, linux ((polydsp davinci): vi, qmake, cscope, valgrind,

qt network api, shell, source insight, beyond compare, wincvs

b) development of python scripts for sip automation team

it is python framework to automate testing of development builds on all voip phones.

this framework is developed using perl modules to interact with phones over telnet

and http hooks. it supports running test scripts remotely on phones. in this frame work

all test resources are accessed using webgui in browser. these scripts are run by qmtest tool.

role:

a) development of python scripts for test cases available in polytest database.

b) developing and enhancing framework to interact with phones, boot server, repository, trd.

c) testing and debugging perl test scripts in eclipse.

d) creating wrapper over dbi, telnet, xml, file and ftp modules.

e) creating and maintaining python and batch scripts to generate qmt wrappers to create qmtest tdb.

f) scripted, tested & reviewed test cases for below sections:

1) call diversion 2) call park & call pickup

3) acceptance of passwords in admin/user settings

4) multiple call appearance 5) call hold

6) call transfer 7) multilingual settings.

language/tools: python 2.4, eclipse ide, python modules (logging,unittest,argparse,lxml,request)

c) rock pile cisco ip phone testing (test record and run tool):

it is used for recording test cases, updating builds and running recorded test cases.

it was developed using html/css/javascript.

it is accessing phone commands, keypad, screen and audio using http hooks provided for this phone.

role:

1) took training for how existing rockpile simulator works.

2) recorded test cases assigned to me in test database (tcms).

3) upgraded to version 2.0

language/tools: html, css, javascript, notepad++, firefox/chrome

7) verizon (Sep06–Mar08)

role: senior analyst

projects:

a)vmobile simulator(dec06-mar08)

it is used as a simulator for testing functionality of different vmobile clients.

a) developing architecture and directory structure for this.

b) setting virtual hosts for each vmobile client.

c) writing code for providing logs to displays requests received and various parameters

in that. these logs are helpful for vmobile clients to test its all type of requests and server responses.

d) designing basic template for handling request/responses as a start up for other 2 team members.

language/tools: python 2.3, komodo ide, notepad++

b)awas(automated work force administration system)

it is used for receiving dsl/fttp/pots jobs/service requests from backend and

then assigning those to technicians as per their-skills/location/criticality/customer type.

these jobs are downloaded in laptops/blackberry-sets by technicians using vmobile clients.

once they do completion/incompletion/refuse/reroute these are sent to awas, that updates these in

awas databases.

role: worked for gateway inbound/outbound server side coding.

it involves use of C++/esql(Informix) in cem environment on aix.

c)netgate(coding: sept 2006 - feb2007, prod support: sep06-mar08)

it is middleware based on corba-poa(orbix) architecture for C++ on aix/sunos.

it receives/sends response-back from/to netway. its testing is done using gwsimulator.

gwsimulator is tool for trouble-shooting any issues arises for dsl/fttp/pots

tickets/service-requests/line-tests. it communicates with other servers using

orb-IDLs/xml-soap architecture.

role:

1)took training of corba(idl & orb)

2)development for new change-requests/initiatives

3)tier-iii production support

9) innominds software (p) ltd (8Aug05-31Dec05)

client: nokia internet communications, hyderabad

role: senior software engineer

a) ipvpn (target products - nokia 5i, nokia 10i, nokia 50i, nokia 100i and nokia 500i)

language/os/tools – c, tcl on freebsd(development machine) and

alchemy operating system(aos in target router)

operating system - linux, windows, freeBSD, aos

role – modified in c source files(network functions) to get ipvpn data in xml format.

wrote tcl script to parse generated xml. wrote tcl script (cgi) to get data from

parsed xml in hash and populating view. wrote functions for posting information

set on view back to device.

description – this is a web user interface meant for interacting with nokia ip vpn

security appliance products.

10) Integra Micro Systems (P) Ltd (17Feb04-16May05)

Software Engineer

Project:

1) Miraculix (RIM client Palm OS Project) (Feb04–Dec04)

Role: Software Engineer

Responsibilities: Testing email client with following features:

Viewing list of messages in inbox, outbox, sent, draft, trash, unified-all folders.

Opening a message and viewing it in Message View screen.

Saving a message in a folder and replying a message to one or all.

Opening and inserting attachment.

Input Gadget for editing Characters by Stylus.

Environment Used (Palm OS and Code Warrior IDE & for later phases .NET)

Programming Language (C++ with API of Palm OS 3.5)

2) Client: Motorola India Electronics Limited, Hyderabad. (Jan05 – Jun05)

Role: Software Engineer

Responsibilities:

1) Development & Maintenance of new features of phone simulators

(Rainbow, Neptune). Programming language wish (C++) scripts (Rainbow),

Neptune (Perl/Tk).

2) Development & Maintenance of new features in C/C++.

Applications - Personalize (Idle Screen, Home screen, Wallpaper, Screensaver, Calendar)

Languages – C++, Perl, TCL

Trainings – One month (Perl, Coding standards of C programming)

Achievements & Extra Curricular Activities

Professional:

1) received "above & beyond" award for our work in vmobile simulator.

2) received appreciation for quick pickup of tcl skills in ipvpn project.

3) six sigma white belt certification in ibm

4) cmmi training for understanding its 5 levels.

Educational:

1. Got First class certificate in National Mathematics Olympiad.

2. Got 1st rank in 10th class board examination from Gita Convent School, CBSE.

Awards:

1. First Prize in Drawing and Painting Competition in 10th class

2. Second Prize in Science Quiz Contest, Kapur College

Activities:

1. Team member in the organization of the annual function activities as part of

our Shastri House.

2. Organized IT Seminars, Technology Presentations in college during BE.

3. Developed Software application for online test. Question paper was in doc format.

Answer sheet was developed in java program with list containing options (a, b, c, and d).

certifications and publication:

cell phone keypads for blinds (electronics for you).

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