SWETHA.L

**Professional profile**

* 3+ years of experience in System Development and Testing in C,Linux and embedded C.
* Good knowledge of Linux internals, Shell scripting and 8086 microprocessor.
* Worked in projects involving complete SDLC

**Education**

* BE in Information Science from Acharya Institute of Technology (2006-2010)

**Professional Experience**

* ***Jan 2013 to March 2014 (* Software Developer at IBM ISL )**

**Description:**

Linux on system z in short LOZ is Linux OS compiled to run on system Z (main frame). Our team objective is to create new tools and certify various supported flavors of Linux on system z machine. Also certify any new hardware with supported Linux OS.

**Roles and Responsibilities**

* Implementation of System Z complex instructions in Valgrind using C language.
* Involved in testing of DB2 setup on Linux on system Z.
* Involved in testing of deployment of Linux on system z with various combination environment like cpus, memory, storage disks and network interfaces.
* Involved in enhancement of existing automation framework using shell script and Python.
* Reported, tracked and communicated defect with customers via RQM and Bugzilla.
* Involved in Preparing Automation test plan, Automation of test cases in Python and shell scripts and runningthem using TP4 framework.
* Involved in testing gnu tool chain GCC and GDB.

**Skills**

* Operating system **:** LINUX(RHEL,SUSE,Fedora)
* Languages **:** C
* Scripting language **:** Shell scripting,Python
* Debugging **:** GDB
* Defect management **:** Bugzilla, RQM
* Testing methodology **:**Agile

***December 2010 to Jan 2013***

* **Project Engineer , National Aerospace Laboratories, Bangalore**

NAL uses MK8 Parallel computer for running their Meteorological weather forecasting software.MK8 is an in home developed Parallel computer that runs on x86 based processors. It uses a NAL proprietary communication protocol for cluster communication. A HexSwitch is used as the switching device for cluster communication within and across cluster members.

A cluster of Flosolver MK8 consist of 4 server boards and a PCIe card.These servers are connected to an FPGA based FloSwitch through PCI add-on card via parellel interface.This add-on card in the cluster wil be replaced with 8x PCIe card which has both parallel interface and serial interface as external interfaces using embedded C.

**Key Deliverables:**

* Embedded development of communication protocol for MK8 parallel computer using C.
* Involved in testing and Performance Benchmarking of met-code on Hexswitch.
* Involved in Testing of 1024 procs using sockets.
* Writing server-side protocol for Data Transfer and computation.
* Scaling protocol from 32 procs to 64 procs and from 64 procs to 128 procs
* Implemented and Tested Broadcast Routines for 128 procs using embedded C.
* Writing Test cases and Testing the Routines.
* Writing Linux shell scripts.

**Personal Details**

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Date of Birth **:** 23/12/1988

Marital Status **:**  Single

Languages Known **:** English, Kannada, Telugu, Tamil and Hindi