SOFTWARE DEVELOPMENT ENGINEER IN TEST

Summary

Software Engineer in Test with thorough hands-on experience in all levels of testing with specialization in automation.

Highlights

- Perl,Python, C, VHDL, Matlab JIRA QXDM,QPST,GitHub,Xilinx Design Suite, OPNET Transport planner, Microsoft Visual Studio.
- Scrum
- Unix

Experience

Software Development Engineer In Test 08/2013 to Current Applied Systems, Inc. Portland , OR

- Worked on data modems, kernel level testing on application processors and software testing on the PMIC module.
- Brought up framework for automated tests for the PMIC module for snapdragon 810,808 and 820 series.
- Brought up automated test for IOE on MDM LE targets for 9x25,9x35 and 9x45 data modems.
- Brought up basic infrastructure for new test to enable scheduler level kernel testing.
- Planning, incorporating, automating and executing tests cases.
- Bring up automation framework for projects using Perl, python and shell scripting.
- Provide support for continuous integration and ensure integration in final builds.
- Work with developers to provide fix and ensure its integration in final product.
- Keep track of key performance indicators on the builds and debug reason for the change.
- Push automated scripts in central database for use across different teams.
- Generate bug reports and follow up till fix.
- Use of GIT to review code and give feedback.
- Keep scripts updated for usage with new hardware and optimize the efficiency of the scripts.
- Report and track issues with using tools such as Prism and JIRA.
- Camping of devices on different RATs and to carry out telephony testing.
- Use of QXDM to debug issues in camping and network settings.
- Bring up new hardware to the test setup.
- Identifying the appropriate team to assign an defect.

QA Intern 03/2013 to 08/2013 Copart New Braunfels , TX

- Defect reporting and tracking using JIRA and BUGZILLA.
- Planning of test case, test plans and test suites in AP test manager and execution of the tests.
- Perform smoke testing, regression testing on Android/iOS/WP7/BB.
- Drive testing to perform functionality testing of the mobile application.
- Run automated API testing through SOAPUI.

Intern, Monroe 2 06/2012 to 09/2012 Loma Linda University Medical Center Beaumont/Highland Springs , CA

- Troubleshot computer and network infrastructure issues for the Gates-chili school district comprising of over 1500 computers, 7 server rooms, 20 switches.
- Configured and deployed Cisco 35xx switches and set up server rooms with backup batteries.
- Identified and resolved computers and printer configuration issues.

Intern 07/2009 to 11/2009 Epigon Media Technologies City

- Created applications, such as a calculator, on Symbian operating system in Carbide C++.
- Manually verified data integrity of the backup performed by an in-house designed hardware device that allowed automatic backing from mobile phones.
- Analyzed shortcomings of available market options for data backup from low-end mobile phones and compared them to the features offered by the new product for a feasibility report.

Education

MS : Telecommunication Engineering Technology 03/13 Rochester Institute of Technology State GPA: GPA: 3.35/4.0 Telecommunication Engineering Technology GPA: 3.35/4.0 Graduate project: Study on the feasibility of collision avoidance warning systems using cellular networks in parallel with GPS data. The critical factor was to ensure that the latency of cellular networks is within acceptable limits collision warning in intersections. LTE networks were more suited to the need, other RAT's were feasible only if vehicular course could be predicted. Also, attended the annual conference of the Intelligent Transportation Society of America to conduct this research. Coursework: WAN/LAN planning and design Project: Created a WAN network, performed link analysis and added additional link redundancy check for re-routing paths for failed links using OPNET transport planner. Presented a paper on dense wavelength division multiplexing and its impact on future networks. Graduated among the top 10 in class. Coursework: Telecom network engineering Project: Configured a LAN with multiple switches and routers. Coursework: Design of digital systems Project: Using VHDL, designed an algorithmic state-machine (ASM) based system to create a single-player pong game on a XILINX FPGA. Also added extra features such as two-players.

BTech : Electronics and Communication Engineering 07/09 SRM University City , India GPA: GPA: 8.82/10 Electronics and Communication Engineering GPA: 8.82/10 Power optimization using MAC layer analysis of wireless sensor networks. *Simulated multi-node wireless sensor

network using TinyOS and determined presence of signal at a particular node. To save power, sensors were programmed to dynamically switched on/off.

Skills

AP, API, ASM, automation, backup, basic, C, C++, calculator, Cisco IOS, Cisco, hardware, database, dense wavelength division multiplexing, features, GPS, LAN, MAC, market, Matlab, 9x, modems, network engineering, network, networks, operating system, optimization, Perl, printer, Prism, processors, Programming, Python, reporting, research, routers, routing, scripts, shell scripting, software testing, switches, Telecom, telephony, phones, Transportation, Verilog, VHDL, Microsoft Visual Studio, WAN