**Shaker Boina**

**C/C++ Developer**

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**Professional Summary:**

* Having around 6 years of experience in software analysis, design, development of C/C++ applications on Unix/Linux platform.
* Handling application development life cycle involving requirement analysis, system study, designing, testing, coding, de-bugging and documentation using C/C++ programing on Linux/Unix.
* Experience in Custom software, application software development in the areas of C/C++ and SQL.
* Experience of object-oriented design and end-to-end software development.
* Experience working on Data Structures and implementing mathematical models.
* Fully conversant with Systems Development Life Cycle (SDLC). Well versed with Agile, Scrum, and Waterfall methodologies.
* Having a Scrum master certification, experience in conducting Daily Standup, Sprint planning, Sprint Review and Sprint retrospective meetings.
* Knowledge in multithreaded applications, synchronization mechanisms, distributed systems and code optimization.
* Proficient experience on ticketing tools like JIRA and bugzilla.
* Experience with various source control tools like cvs, svn, Git/Git hub and Bitbucket.
* Developed REST Services in C Framework using the Curl library and tested them with postman and AdvanceRestclient.
* Experience with Debugging Tools such as DBX and GDB.
* Experience with memory leak identification tools such as purify and Valgrind.
* Experience in working Automated Testing methods. Proficient in Test Driven methodology to design, develop & test software modules.
* Have excellent analytical and programming Skills.
* Excellent communication skills (both written and verbal) and a good team player.

**TECHNICAL SKILLS:**

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| Primary Programming Languages | C and C++ |
| Secondary Skills | Core Java and python |
| Environment | Unix, Linux and windows |
| Database | MY SQL, Oracle and SQL |
| Scripting | Shell and Perl |
| Debugging | GCC, GDB, WGDB, DBX, Valgrind and Purify |
| Version Control | SVN, GIT and Bitbucket |
| Tools | Wireshark, Rally, Jira and Postman |

**PROFESSIONAL EXPERIENCE**

**Client: Cisco, San Jose, CA May 2018 to Present**

**Role: Software engineer**

**Project Description:**

This is a tech fund project to prove and enable the carrier WIFI-calling in Cisco offices without any data theft. Carrier Wi-Fi calling fails because IPSec tunnels are blocked by the firewalls. Supporting Carrier Wi-Fi calling in Cisco offices can save millions of dollars on roaming charges.

**Responsibilities:**

* Working as C/C++ developer on a Tech fund project on Encrypted Traffic Analysis specific to the use case WIFI – Calling developing on Linux platform.
* Working with multi time zone agile teams and product managers on all agile activities.
* As part of our project - ATD, we are working on building a device agent, extension of JOY which will work on WIFI calling traffic includes DNS and IPSec packets going through Catalyst 9k switch and do the network data analytics to make some useful network security decisions.
* Developed DNS, IKEV2 and ESP protocol REST API notifications in C/C++ using Curl library.
* Successfully Integrated the device agent – DNAC server.
* Expert on capturing packets in Wireshark and applying capture and display filters.
* Closely working with tech lead and principal engineer on enhancing the application Architecture.
* Developed the test environment to test the developed user stories/tasks.
* Participated in Peer reviews of the Design and Source Code (C/C++ and Shell Scripts).
* Participated in KT/doubts sessions on JOY tool with key JOY developers.
* Participating in sprint planning, sprint review/demo, sprint retrospective activities for effective sprints.
* As a certified Scrum master Involving in writing and review the user stories along with the tech lead and principal engineer.
* Tested the REST APIs using postman and advanceRestClient applications.
* Received appreciation mails from tech lead and team members on process improvement ideas and effective resource utilization.

**Environment:** C/C++, python, REST APIs, Wireshark, ML, DNAC servers, postman, AdvanceRestClient, Linux, Bitbucket, SourceTree, MS office, VNC viewer, VMWare fusion, Sublime text, Catalyst 9k switch.

**Client: WEX Inc, Louisville, Kentucky Mar 2017 to April 2018**

**Role: Software engineer**

**Project Description:**

**Fuel management systems** are used to maintain, control and monitor fuel consumption and stock in any type of industry that uses road transport as a means of business. They employ various methods and technologies to monitor and track fuel inventories, fuel purchases and fuel dispensed. This information can be then stored in computerized systems and reports generated with data to inform management practices.

**Responsibilities:**

* Responsibilities include user interaction, system feasibility study, requirement analysis, and design development, testing, configuration, client interaction and support.
* Did Code enhancement as per the client Requirements.
* Used C++ STL containers, algorithms in the application.
* Experience in C++ STL in developing applications and good exposure to DB programming with PL/SQL.
* Implemented multi-threading for the process to handling the requests.
* Given KT to offshore team member to work on the application modules.
* Worked on Performance Improvement & memory leakage. Provided support for production and development issues.
* Did Code review & Unit testing for enhancements and features.

**Environment:** C/C++, Linux, SQL, STL, Jira

**Client: Factset Research Systems, Hyderabad, India Jan 2012 to Dec 2015**

**Role: Software Developer**

**Responsibilities:**

* Handled customer requests for a C++ Module involving Enhancements, customizations and problem Reports. Actively involved in testing various features, reported problematic scenarios and troubleshooting in live (customer) environments.
* Wrote stored procedures in SQL Server and integrated into the application to access the customer's calls, department's data from databases and store the customer's calls, department's data into database.
* Root cause analysis of the problem.
* Code enhancement according to the client’s Requirements.
* Testing the existing functionality of the code.
* Code review & Unit testing.
* Finding the memory leaks by running the Valgrind and resolving the leaks.

**Environment:** C/C++, Linux/Unix, Valgrind, HPALM, VI editor.

**EDUCATION:**

**Master of Science in Computer information systems (2017)**

Calums University, California.

**Certifications:**

Scrum Master Certified.