**DHRUVIKABEN B. PATEL**

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**Professional Summary:**

* C/C++ Software Engineer with 6+ years of hands on experience in Software Development, Production, Support, troubleshooting & Maintenance.
* Expertise in requirement **analysis, coding** and **code review.**
* **Experienced on C++11 standard features ,STL ,design pattern**
* Experienced in **design, configuration and maintenance** of numerous telecom systems, hardware and software applications
* Experience in various aspects of system architecture, software design, development, implementation and validation.
* Good knowledge on **Wi-Fi protocols**.
* Strong experience in creating Test Plans and Test procedures, driving Test Strategies and tools identification, Managing Test design through cross functional teams and creating Test Summary Reports.
* Good knowledge on **IoT (Internet of Things)** end-to-end application development.
* Extensive experience in Development and Production Support on Linux Environment.
* Good expertise in Software development and support (C++, C, Data Structures)
* Log service requests and resolve the issues reported by the clients within standard time.
* Extensive knowledge in memory management, auto pointers, pointer handling,
* Good knowledge on UNIX Inter Process Communication like Pipes, Message
* Good hands on experience on Web services like **RESTful API, SOAP API and XML** data integration.
* Very strong exposure on software development on Embedded Linux, VxWorks (RTOS).
* Proficient at **debugging code** using **gdb tools**. Acted as second and third level support at various positions.
* Good debugging and analytical skills on x86 and ARM platforms.
* Experience using in **Python, Shell, Bash, Pearl scripting**, Kernel debugging and QT-QNX.
* Experience in various SCM tools GIT, GitHub, CVS, Gerrit.
* Have experience in working on UML on creating class, sequence, activity, deployment diagrams.
* Have good skills in writing requirement, design and unit test documents.
* Have excellent analytical, problem solving, communication and interpersonal skills, with ability to interact with stakeholders at all levels and work as a part of a team and independently.
* Have exposure with **Agile software methodology** and Scrum activities

**Technical Skills:**

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| **Languages** | C++, C, Core Java, RESTful, JSON |
| **Operating System** | Linux, RHEL, Unix, , Windows7/10 |
| **Scripting** | UNIX Shell Scripting, |
| **Databases** | Oracle, PL/SQL, IBM DB2, SQLite, |
| **OOAD** | UML, Design Patterns |
| **Configuration Management tools** | CVS, SVN, Git/GitHub |
| **Debugging Tools** | gdb, dbx |
| **Build Tools** | Make |
| **Bug Tracking tools** | Bugzilla, Jira |
| **Protocols** | TCP/IP, I2C, SPI, UART, RS232, Bluetooth, Wi-Fi |
| **Libraries & Frameworks** | STL, IPC, multithreading, QT/QML, Sockets, signals/event handling, Google Test, Google Mock |

**Professional Experience :**

**UPS Mar 2017- Till Date**

**Location: Mobile, AL**

**Role: C++ Developer**

**Responsibilities:**

* Development and testing of Engine Controller Unit (ECU) Software for Diesel Client.
* Developed software algorithms and Model-based C++ programs for embedded control systems.
* Implementation of CAN protocol and Monitoring of Data Transmission on various ECU units using CAN Analyzer
* Integrate software as per the requirements.
* Developed application features in Embedded C/C++and Integrated the software with the Model Based features developed using CAN Communication Protocols related to the application software.
* Converted Subsystem functions from MATLAB Simulink into C/C++ code using Real Time Workshop (RTW), integrated to QNX Neutrino RTOS for Power PC Board.
* Involved in Model based systems design for hybrid vehicles using MATLAB-Simulink to meet performance and fuel economy criterion.
* Added Custom code to an Auto generated code that is generated by MATLAB RTW.
* Worked with engineering tools like MATLAB/Simulink, LabView, Finite Element Analysis (FEA).
* Developed software algorithms and Model-based C++ programs for embedded control systems using MATLAB/Simulink.
* Implemented TLS/SSL communication code to send vehicle data, information and records to the cloud to show information on cloud platform using REST APIs.
* Wrote SQL statements in conjunction with embedded database library to use SYBASE relational database
* Wrote a script in Perl, which in conjunction with version control system built a particular version of application.
* Worked on various Active Template Libraries (ATL) in various code optimization techniques.
* Developed legacy applications and design new eBusiness applications using breakthrough technologies.
* Building flash files with integrating application features.
* Simulate Circuit Continuity faults and automate those using Python scripts.
* Developed high level, detailed test plans, test applications and scripts for validating the software modules.
* Supporting Field Team and coordinated with the client and offshore team to ensure software delivery on time and of high quality.
* Bug Tracking, issue tracking, and project management & updating defect status using JIRA.
* Prepare Test Cases, Test Sets, Defect tracking report, created Reports and monitored UNIX logs for troubleshooting defects.

**Environment:** C, C++, Linux, SQL, CAN, LIN, RS 232, QT/QML, Python, MATLAB/Simulink,

Microcontroller, SSL/TLS, Python, Embedded C, TCP/IP, REST APIs, OOAD, STL, Integrated Development Environment

**North pointe Bank - Indianapolis, IN May 2014 – March 2016**

**Role: Senior C++ Developer**

**RESPONSIBILITIES:**

* Part of a development team to implement Wealth Management services from UI and C++ on Linux platforms.
* Developed multithreaded cache offline program in C++ to support various UIs to deliver/process data for a scalable, high throughput, low latency applications.
* Wrote C++ programs for end of day operations (EOD) to close or roll the orders.
* Used STL extensively to store data on Order history, accounts, securities, etc. for fast retrieval/update.
* Worked with users, business and exchanges to gather new requirements/enhancements, testing and final delivery of sub systems.
* Used various data structures and design patterns in applications like Singleton, Observer, Factory methods etc.
* Handled corporate action events to reflect the order price and currently implementing the tick size changes.
* Developed/enhanced Visual C++ GUI applications that gather and generate statistics on investments and loans.
* Used C/C++ interface to retrieve/update info from/to the DB.
* Developed/enhanced as part of team to compute commission calculations based on commission rules and generate pdf reports.
* Modified C++ programs to support compliance rule automation for many compliance rules for client accounts for compliance purposes and manage leverage using many metrics like industry exposure, security type, long/short positions, currency / securities / options / futures, credit ratings etc.
* Wrote various SQL stored procedures to compute several metrics like realized/unrealized gain/loss, forex rate effect and other data manipulation.
* Used Python scripts to generate various reports like OATS, P&L, transaction history, user privileges, limit rules and commission schedule reports.
* Used SVN and git /GitHub for source code control.
* Followed Agile and Scrum Methodologies

**Environment**: C, C++, Design Patterns, SQL, Python, QNX,bash, Linux, QT/QML, POSIX Threads, SVN, git, GitHub, BOOST libraries, gdb, pdb, dbx, OpenGrok, Jira.

**Bank of America**

**Location: Charlotte, NC June 2012- Dec2013**

**Responsibilities:**

* Developed scripts in C on UNIX platform to contribute to the software project, which automated customized design process.
* Wrote a program in C, which converted programmer's interface between two different types of database.
* Supported the integration of the core technology libraries into other user-friendly front-end applications
* Wrote SQL statements in conjunction with embedded database library to use SYBASE relational database.
* Wrote a program in C, which parses computer logs and then displays the summary in automatically generated HTML files.
* Strong understanding of systems architecture and pattern concepts. C/C++, OOP, STL, Multithreading, High Availability, and Shell scripting, all on a UNIX platform.
* Tuned database SQL statements and procedures by monitoring run times and system statistics. Inserted hints and rewrote code as required.
* Using Teradata SQL Assistant and Oracle SQL Developer for Database Activities.
* Peer reviews of the Design and Source Code (C, C++).
* Develop and Execute the Module Test Cases on Unit and Integration Testing environments.
* Support System Testing, Acceptance (UAT) Testing and Production changes.
* Debugging and troubleshooting production issues.
* Installation, configuration and administration of UNIX server, maintains and manages various services running in UNIX system
* Wrote a script in Perl, which in conjunction with version control system built a particular version of application.
* Contributed to make file project, which standardized all UNIX make files on the project.
* Verified the Inbound and Outbound 834 generated for CHIP, Medicaid, APTC and QHP flavors scenarios.
* Experience in enrolling with commercial managed care coverage are excluded from enrollment in Medicaid MCOs, while TPL for other enrollees with private health insurance or Medicare coverage.
* Worked on various Active Template Libraries (ATL) in various code optimization techniques.
* I was trained on the job in agile software practices and I am familiar with fundamental ideas of agile practice.
* Support System Testing, Acceptance (UAT) Testing and Production changes.

**Environment**: Oracle, SQL Server, UNIX shell scripting, Java, HTML, UNIX, Quality Center, UNIX, C Programming, EDI, Claims, XML

**Education:**

* ORACLE Administrator : Oracle Apr 2017 online training - mobile, al
* BACHELORS OF ENGINEERING : I.C.T. (INFORMATION AND COMMUNICATION TECHNOLOGY)

Madhuben and Bhanubhai Patel Women Institute of Engineering - Anand, GJ Mar 2009