

Nitish Sharma 

Software Engineer seeking roles in IT Project Management, Software Development, Software Design, Requirement Gathering, Embedded Software, Software Services, Software Testing, Software Quality Assurance, System Programming, Shell Scripting, Linux

Current Designation: Software Engineer

Total Experience: 2 Year(s) 10 Month(s)

Current Company: Satyam Software Solutions Pvt. Ltd

Notice Period: 15 Days or less

Current Location: Delhi

Highest Degree: M.Tech
[Electronics/Telecommunication]

Pref. Location: Bengaluru / Bangalore, Chandigarh, Delhi / NCR

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Key Skills: Software Engineer, Software Developer, IT Project Management, Software Development, Software Design, Requirement Gathering, Embedded Software, Software Services, Software Testing, Software Quality Assurance, System Programming, Shell Scripting, Linux

Verified : Phone Number | Email - id

Last Active: 21-Jan-21

Last Modified: 21-Jan-21

Summary

With overall 2+ years of professional experience in Telecom and IT industry and relevant training experience in Embedded Domain, seeking a dynamic role as an Embedded Software Developer to perfectly utilize my technical skills through sincerely dedication.

Work Experience

Satyam Software Solutions Pvt. Ltd as Software Engineer

Nov 2018 to Till Date

Technologies used: C, C++, Multithreading, Socket Programming (TCP/IP, FTP over TLS and SSL), Linux, Shell Scripting, Library Compilation GDB for debugging.

This project is based to Automatic Fare Collection from a Token or a Metro card and let the patron pass through the aisle according to the parameters

The software is completely developed in a linux environment using different programming languages like C, C++, GTK, Socket Programming (TCP/IP, FTPS) and Shell Scripting.

A token or a card initiates the process and the communication is done with different hardware modules like GCU (Gate Controlling Unit), TCU (Token Collection Unit) and a Card Reader.

The communication is done through RS232 protocol between different hardware devices. After the initiation of a process, it communicates with the hardware accordingly and on successful processing the flaps are opened and the patron is allowed to move forward.

-TCU (Token Capture Unit)

Technologies used: C, C++, Multithreading, Socket Programming, IPC, Shell Scripting.

Token capture unit is basically installed into AFC gate to validate passenger's token.

When token inserted, data is read from token using NFC and validated. If token valid, an open message to GCU (Gate Controlling Unit) is send using message queue to

open gates or if token invalid then message is passed to GCU to remain gates close.

-Update Manager and Security Implementation

Technologies used: C, Curl, Multithreading, Socket Programming, IPC, Shell Scripting.

A client server architecture is used to communicate between AFC gate and central server. When there is any need of update the software in all AFC installed into station. We have to place binary file into station computer in specified directory and all gates will automatically update their specified modules.

AFC gates download updated files using curl and then MD5 with the concerned files was also calculated and matched after downloading to ensure all the data has been received or not.

EmbLogic RCD Labs as Embedded Developer Dec 2017 to Sep 2018

- Implemented IPC Techniques Pipes, MsgQ, FIFO, Shared Memory.
- Client Server Communication using Socket Programming.
- Character Device Driver Development on kernel v4.13.9.
- Basic understanding of Kernel Compilation.

Education

UG: **B.Tech/B.E. (Electronics and communication)** from **HPTU Hamirpur** in **2016**

PG: **M.Tech (Electronics/Telecommunication)** from **LR Institute of Legal Studies, Solan** in **2016**

Other Qualifications/Certifications/Programs:

Diploma in Electronics and Communication

IT Skills

Skill Name	Version	Last Used	Experience
C,C++			
GDB,RCS,VIM,cocox,Keil			
Shell scripting, Linux			

Languages Known

Language	Proficiency	Read	Write	Speak
English				
Hindi				
Punjabi				

Affirmative Action

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time