**D.Bhagath Chandar**

[**bhagathchandar@gmail.com**](mailto:bhagathchandar@gmail.com)

**PROFESSIONAL**

**PROFILE** Seeking a challenging position, where expert technical skills, extensive knowledge in C programming language, Linux internals like Process, memory management, IPC & Multithreading, excellent interpersonal and analytical skills will be valued, fully utilized, and encouraged.

Having **9+ years** of experience in software engineering and presently working at Cognizant Technology Solutions Pvt. Ltd.

* Expertise in C, Pro\*C, Data Structures, Shell scripting and MySQL
* Adequate knowledge in Linux internals like IPC, Sockets, Multi-Threading, Synchronization techniques and Memory managements.
* Designing modules using GTK Glade Interface Toolkit Basic knowledge in embedded systems.
* Good knowledge in debugging tools like GDB and Valgrind.
* Satisfactory knowledge in version control system like GIT
* Experience in code collaboration tools like GitHub and code warrior
* Knowledge in C++ Programming language and OOPS Concepts.

**PROJECTS**

**DIRECTV-Lifecycle BAU – Billing**

Organization: **Cognizant Technology Solutions**

Client: AT&T DirecTV.

Platform / Software : C, Linux

Duration: FEB 2024 to DEC 2024

**Description:**

* ZLDS (Zero Latency Data Store) serves as a storage for mission critical data and provides an integrated view of the customer.
* Purpose of ZLDS is to have parallel production database which is STMS (Subscriber Transaction Management System) (Billing) with near to real-time data and allow all other applications which require data from STMS and avoid load/traffic to STMS.
* ZLDS follows AT&T legal, compliance process, code standard and DIRECTV procedures.

**Responsibility:**

* Provide support for maintaining the C application software.
* Application code storage using code cloud and GitHub Version control through

GitHub desktop and command line interface**.**

**Walmart-Log\_INTL\_ATLAS\_TechMod (MFC Offshore)**

Organization: **Cognizant Technology Solutions**

Client: Walmart.

Platform / Software: C, Pro\*C, Oracle, Linux

Duration: OCT 2023 to JAN 2024

**Description:**

* Global Logistics System (GLS) deals with Wal-Mart’s Warehouse Management system (WMS).
* A WMS, is a key part of the supply chain and primarily aims to control the movement and storage of materials within a warehouse and process the associated transactions, including receiving, order processing, quality assurance and shipping.
* The system also directs and optimizes stock put away based on real-time information about the status of slot utilization.
* MFC (Market Fulfilment Center) is a compact automated warehouse built within or added to a store. Using MFCs can store thousands of items that customer want the most in addition to fresh and frozen items.
* GLS has many labels which get printed on logistics operations and now has been modified to new format that is more visible and easily readable.

**Responsibility:**

* Testing of Order Processing, Receiving and Quality assurance operation executed with GLS US and Touch server screen.
* Label enhancement testing done with Printronix and OCE Printer.

**INTEL Quick-Assist technology**

Organization : **HCL TechnologiesLtd.**

Client: Intel

Platform/Software: C, Linux

Duration: SEP 2021 to OCT 2023

**Description:**

* Quick Assist technology offloads computationally intensive compression and encryption tasks to provide a performance boost for Intel processors.
* Application developers can access QuickAssist features through the QATAPI.
* The QATAPI is the top-level API for QuickAssist technology, and enables easy interfacing between the customer application and the QuickAssist acceleration driver.

**Responsibility:**

* Development of Sample Test Application in C programming / Linux and debugging using GDB
* Unit testing and Integration Testing using C.
* Automation Test Framework development using python script

**Android Security Patch Update – Vulnerability fixing**

Organization: **HCL Technologies Ltd.**

Client: RICOH Company Ltd.

Platform/Software: C, Linux

Duration: June 2019 to 2021

**Description:**

* The Ricoh Company Ltd. is a Japanese multinational imaging and Electronics Company which produces electronic products, primarily cameras and office equipment such as printers, photocopiers, fax machines, Projectors and offers Software as a Service (SaaS) document management applications.
* Office Printers has Android Panels which is used as a user interface device.
* Those panels need to be made vulnerability free by fixing the list of applicable CVEs referred from National Vulnerability Database (NVD).
* CVE is a list of entries each containing identification number, a description, and atleast one public reference for the publicly known cyber security vulnerabilities.

### Responsibility:

* Identifying the applicable CVEs for the Panel version used by referring the National Vulnerability Database.
* Fixing the identified vulnerability, by investigating and applying appropriate changes in the source code.
* Perform unit testing and ensuring the vulnerability fixed and functionalities are intact.
* Developing patch files to be delivered to the Testing team for testing and to the Client.

# T4241BoardBring up:

## Organization: CornetTechnology

Client: NPOL (Naval Physical and Oceanographic Laboratory) Languages: C

Duration: Nov 2017 to May 2019

### Description:

### The T4 family of processors combines dual-threaded Power Architecture processor cores with AltiVec high-performance data path acceleration architecture (DPAA) and network & peripheral interfaces to address a wide variety of applications in networking, telecom/datacom, data center, wireless infrastructure, industrial and mil/aerospace applications.

### Responsibility:

* Working with open source Library generated by Cross Compiling for Altivec Libraries.
* Reading temperature sensor, Voltage & Current Sensor and Thermal Diode Sensor generate for T4241 API Application.
* Customize the open source ALSA driver for T4241 board audio playback.

# KIOSK POS development:

Organization: **Pace Automation Pvt. Ltd.**

Client: CAFÉ COFFEE DAY

Platform/Software: C, Linux, GTK, MySQL and ORACLE

Duration:September 2015 to September 2017

### Description:

* Each outlet has kiosk, terminals and KOT device assigned to it.
* Terminal is a device used to get order and print bill for ordered items.
* Kiosk is a computer setup with required accessories such as printer, smart card reader.
* The Application involves in Billing, Reports Management, Items Stock Management, Audit Management and Employee Pay Roll.

### Responsibility:

* Developing new features in POS application based on the feature requirements
  + Developed user interfaces with GTK with Casbacked for billing, stock and employee management and Report generation.
  + Worked on software enhancement to communicate with physical devices such as printers and QR Scanner with Linux IPC and file system techniques.
  + Enhanced process communication of outlets with server by Linux sockets.
* Analysing and Code fixing the issues
  + Worked on fixing Memory leaks, OOM and Process terminations.

**EDUCATION**

B.E. (Electronics and communication engineering) at Udaya School of Engineering, Nagercoil in the year 2014 with 65.5%

H.S.S. at D.V.D Hr.Sec.School, Kottar, State Board in the year 2010 with 66%.

**PERSONAL**

**INFORMATION**

Father’s Name: Mr.S.P.Devaperumal

Date of Birth: 07-02-1993

Gender: Male

Nationality: Indian

Languages Known: Tamil & English

I hereby declare that the above information is true to the best of my knowledge.

**Date:**

**Place:** (BHAGATHCHANDAR. D)