**Chita Ranjan Satapathy**

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* Passionate and Conscientious Professional, Software Developer with 12 years of experience in all phases of Software Development Life Cycle.
* Strong experience in Java 1.8, Spring Boot, C++, Kafka, Oracle.
* Well versed with the concept of Agile Development and Scrum methodologies, DevOps.
* Domain experience in Capital Market, IoT, Networking, Game development.

## KEY TECHNICAL SKILLS

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| --- | --- |
| Languages/Frameworks/Technologies/ | Java8, Spring Boot, Spring Batch, Kafka, C++, Python, AvroTesting: Junit, Mockito, CucumberDevOps: Git, Jenkins, uDeploy, SonarQube |
| Database  | Oracle, MS SQL, Mongodb |
| Other familiar | Jira, Agile, Json, RestApi, Multithreading, Git, Solace, Algorithm, Data structure, Data Science, Machine learning, OOD, IntelliJ, IoT, Python, Microsoft Visio, CPPUnit, Jenkins  |
| Cloud Technology  | MS Azure – AZ900 Certified  |

## EDUCATION

**PG Diploma in Data Science**,

IIIT Bengaluru

March-2018 – May-2019

**Master of Computer Application**, From university of, Biju Patnaik University of Technology (BPUT), Bhubaneswar, India

## WORK EXPERIENCE

**Wells Fargo May 2019 to Till date**

**Equity Data Analytics Platform Development Lead Engineer**

**STPHUB Development Bengaluru, India**

* Designed and developed micro-services handling real-time data from multiple upstream

trade execution engines.

* Developed various adapters for downstream reporting.
* Working on Low latency application with kafka stream.
* Mentoring and guiding junior developers.
* Setup CI/CD pipeline, decorated PR with github apps to enforce code coverage and block code smells, bugs that are reported in sonar
* Managing the solace messages and fix session for message communication.
* Developed MATH framework cash automation as part of ALM.

Technologies and Tools: Java8, Spring Boot, Kafka, Avro, C++, Solace Messaging system, Fix Protocol, Python, Docker, Kubernetes, Jenkins, SQL.

**Anritsu India Pvt. Ltd. Sept 2016 to April 2019**

**Alethea Communication Lead Engineer**

**Hercules Framework Development Bengaluru, India**

Hercules framework is a simulated software which act as interface between RTD GUI(Rapid Test Design) and Protocol Layer which will communicate with the Network Simulated Box. There are various components in framework module. Mainly the modules are eCodec, Trace logger, Application Adapter etc. eCoded is mainly used to encode and decode the network messages which internally parse the asn file using yacc parser then on the basis of initialization the network message ciphered. Its multi thread framework which will interact with Tools and libraries. Also it configured with low level apis to control the RTD boxes. Implementing the security algorithm for encrypt and decrypt the NAS and RRC message.

**Responsibilities**:

* Development of new features in Hercules framework on latest spec.
* Composing the asn file for protocol communication.
* Developing eCodec software for encoding and decoding of the communication message.
* Parsing the XML file using Xerces library.
* Researching on 5G protocol for future IoT development.

Technologies and Tools: Java8, C++, TCP IP, STL, Boost, Eclipse, InteliJ ,Visual Studio 2015.

**Hexaware Technologies Jun 15 to Aug 16**

 **System Analyst**

**Chennai, India**

**R&D and Fleet Management System – Internet of Things (IoT)**

Fleet Management System is a web-based fleet management solution built on a scalable IoT platform designed to integrate with your entire business, from logistics and maintenance of on road vehicles by using Keytelematics platform. The complete IoT platform builds on jasper network with Tele2 and Keytelematics cloud. A customize protocol communicate with TCP server to get streamed vehicle data. There are around thousand plus assets configured with devices and connected to the Keytelematics platform.

**Responsibilities**:

* Produced coherent technical proposals that meet the requirements.
* Developed protocol to communicate with Keytelematics TCP server to get streamed data.
* Designed and developed Java based application which will accept JSON data and parse the data and store it in the database.
* Working on cloud providers like AWS and Azure to configure new devices which sense the events and send data to cloud platform.
* Working on HADOOP to store the vehicle streamed data so we can build the analytics on it.
* Architected and designed software solutions for various components.
* Performed static code analysis with Coverity and dynamic code analysis with GoogleProfiler for modules written in Java and C++.

Technologies and Tools: Java, IoT, C++, TCP IP, Java, CoAP, MQTT, JsonCpp, STL, Visual Studio 2015, XML and AWS.

**Bally Technologies**

**Nov’11 to May’15**

 **Software Analyst**

 **Chennai, India**

**Slot Game Development**

This product is basically for Casinos and the target audience are, who want to enjoy the enjoy gaming with gambling. These games will allow them to play and bet money in that. Player has to spin the button and reel spin will trigger. If there is a match found with win line pattern as implemented in software with particular math model, player will be awarded with win. There several feature which will entertain the players. The feature will vary for different jurisdiction.

Responsibilities:

* Prepared Functional and Design Specs for new games feature.
* Designed and developed feature by using C++, Linux, Algorithm, Data Structure and System API
* Proposed advanced features for Bally Game Core Engine enhancement which helped game developers to develop more advanced games.
* Analyzed core dumps using gdb to root cause the crash issue.
* Performed Unit Testing and Code Review.

Technologies and Tools: C++, Java, STL, Multithreading, IPC, TCP IP, Algorithm, Data Structure, Shell Scripting, CVS, SVN, Test Track, Xerces, Jira, Coverity and Google Profiler.

**American Megatrends India Pvt. Ltd**

**Jul’10 to Oct ’11**

**System Software Engineer**

**Chennai, India**

**BIOS and Utility Tool Development**

Utility tools FwLib and FwlibAdapter are a complete set of libraries used by all the FirmwareApplication tools of AMI. They provide means to initialize and traverse the GRAPH structure of a firmware image. They also enable modifications to the firmware image while strictly following the UEFI specifications from Intel. MMTool is used to insertion of firmware section, file and volume in BIOS rom image. VeB is BIOS code editor and compiler. RSC is AMI’s own versioning tool. FwBuild use to build BIOS and manipulate different sections of BIOS image.

Responsibilities:

* Designing and implementation of new APIs for enhancement of tools, whenever required.
* Involved in MAJOR version change.
* Designed the GUI utility tools using MFC and command line tools using C, C++, UEFI.
* Used graph data structure to load the BIOS image structure into memory and used efficient algorithms to perform various operations on the ROM image.
* Enforcement of the UEFI specs for the operations on the components.
* Enforcement of UEFI specs in the implementation.
* Bug fixing and maintenance of the existing APIs.
* Performed Unit Testing and Code Review
* Analyzed user dumps using WinDBG to find root cause

Technologies and Tools: C++, C, UEFI, Data Structure, Java, Algorithm, COM, Win32 API, Windows Internals, CVS, SVN, Linux.