Rebekah Kanagarani J

Principal Software Specialist

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EXPERIENCE SUMMARY

- **15+ years** of product development experience and presently working for **Nokia India Private Ltd**.
- Good Knowledge in High level application development using **OOP (C++, Core Java)**
- Working experience in **Software Development** in **Telecom Domain – LTE(MME) and 5G(AMF)**.
- Good team player with excellent communication skills, Flexibility to change/leverage with any new technology.
- A talent for analyzing problems, developing, simplifying, and finding innovative solutions.
- Spearheaded critical projects, leading cross-functional teams.

EDUCATIONAL QUALIFICATIONS

- Currently pursuing **MS Information Science with specialization in Machine Learning** from University of Arizona, Tucson/Arizona/United States.

- Pursued my **B.Tech Information Technology** in K.L.N. College of Engineering affiliated to Anna University during 2004 - 2008 with an aggregate of **82%** in Madurai/Tamil Nadu/India.

- Completed my **Higher Secondary** in April 2003 with an aggregate of **92.25%** in Capron Hall Girls Higher Secondary School, Madurai / Tamil Nadu/India.

- Completed my **S.S.L.C** in April 2001 with an aggregate of **90.6%** in Capron Hall Girls Higher Secondary School, Madurai / Tamil Nadu/India.

CERTIFICATIONS

- Certified **ScrumMaster**
- Oracle Certified Java Associate, Java SE 7 Programmer
- IBM certified DB2 Database Associate in V 8.1 Family
- IBM Certified Associate Developer - Web Sphere Studio V5.0

TECHNICAL SKILLS:

Programming Languages	: C++, Core Java, Python
SCM tools	: SVN, GIT
Software Methodology	: Agile – scrum
Telecom Skills	: 4G and 5G
Protocols	: S1AP, NGAP, Diameter, GTPV2, SBI, HTTP2
Interfaces	: NAS, S1, S3, S11, S10, S6a, SGs, N1, N2, N8, N11, N14, N20, N26
Test Framework	: TTCN, Robot Framework

1. **CMM**

   Company   : **Nokia India Private Ltd**, Bangalore, India
   Product Name   : CMM (MME and AMF)
   Role Performed   : Principal Software Specialist
   Duration   : 02/04/2014 to till date

   Project Summary   :

   The mobility management entity (MME), which presents a key control node for the LTE access network, manages UE access network and mobility, as well as establishing the bearer path for UE's. The MME is also concerned with the bearer activation/deactivation process.

   The Access & Mobility Management Function (AMF) is a control plane function in 5G core network. The main functions and responsibilities of AMF are Registration Management, Reachability Management, Connection Management, Mobility Management

   Responsibilities:
   - As a Principal Software Specialist, my role is to design and develop the features and to deliver quality product.
   - Developing various features of MME and AMF.
   - Some of the recent significant features are SMS over MME, SMS over NAS support in AMF and roaming support in AMF.
   - Planning and estimation of required effort, coding and testing the deliverable and provide with documentation as required.
   - Language used for development is C++.

2. **AIP APPLICATION**

   Company   : **Oracle India Private Ltd**, Bangalore, India
   Product Name   : AIP
   Role Performed   : Application Developer
   Duration   : 20/12/2012 to 28/03/2014

   Project Summary   :

   Advanced Inventory Planning is a retail product focused on managing inventory and movement of merchandise across the entire supply chain from vendors to stores by the use of statistical approach to generate constrained based and time-phased purchase orders, transfers or allocations.

   Responsibilities:
   - Actively involved in all phases of development and maintenance of the product.
   - Demonstrating strong customer focus, ability to work on strict deadlines and handle major responsibilities and ownership of the product.
   - Languages used for development are C++, java and pl/sql

3. FNS-MME

Company   : **IBM India Private Ltd**, Bangalore, India
Project Name   : NSN-NS-10-20
Client Name   : Nokia Siemens Networks.
Role Performed   : Senior Software Developer
Duration   : 17/05/2010 to 17/12/2012

Project Summary   :
      The mobility management entity (MME), which presents a key control node for the LTE access network, manages UE access network and mobility, as well as establishing the bearer path for UE's. The MME is also concerned with the bearer activation/deactivation process.

Responsibilities:
- As a software developer, my role is to enhance the features, to deliver quality product.
- Work in accordance with the agile development process and adhere to the process guidelines while providing solutions.
- Developing various features of MME (on control plane) which come as user requirement in each sprint and defect fixing.
- Planning and estimation of required effort, coding and testing the deliverable and provide with documentation as required.
- Implemented Flexi Maintenance Application, for trouble shooting.
- Language used for development is Java and C++.

4. HIQ APPLICATION

Company   : **IBM India Private Ltd**, Bangalore, India
Project Name   : NSN- CBVOIP
Client Name   : Nokia Siemens Networks.
Role Performed   : Software Developer
Duration   : From Dec 2008 to May 2010

Project Summary:
      The Nokia Siemens Networks' hiQ series (HiQ8000/4200) which is a class 5 softswitch application deals with Next Generation Voice and Multimedia; Media Gateway; Mobile Internet Connections and Consumer and Business VoIP business lines of the Service Core and Applications Business Unit.
      The main work area of the project is enhancement and the maintenance of the surpass HiQ8000 Soft Switch. It supports different protocols like SIP, MGCP, H.248 etc. and it handles different calls like SIP, MGCP, ISUP, MEGACO etc and different services like CF, BG, OCB, Speed Call, Emergency Call, Account Code etc.
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Responsibilities:
- As a software developer, my role is to enhance the features, to deliver quality product and to give continuous support for the client.
- Work in accordance with the agile development process and adhere to the process guidelines while providing solutions.
- Language used for development is C++ on Linux platform.
- Worked on the enhancement and bug-fixing of Media Gateway Controller (MGC).
- Developed IPSL scripts for testing various call flows supporting different protocols