MEGHA. N

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Work Experience

NOKIA NETWORKS – *Senior Software Engineer (2015 – current)*

- Working on product which is a Self-Optimizing Network solution that smoothens and fasten the mobile radio access networks.

- Multiple modules are developed in this product that optimize the network by detecting and resolving issues.

- Involved in providing **multi-technology** (2G,3G etc) and **multi-vendor** (Huawei, Ericsson etc) support for few modules.

- 5+ years of experience in development with exposure to **scrum** and **agile** methodologies

- Currently, responsible in the product migration to **Cloud Native** Architecture. Leading the conversion of framework services to a **microservice**.

- Responsible for **Introducing 5G technology in SON Framework** for Nokia Vendor.

- Responsible in the **development of SON algorithm** and implementation for 3G module which optimizes 3G network.

- Responsible in development of features/maintenance in framework and 3G, 4G modules in the product.

Education

PES Institute of Technology (2011-2015)

Bachelor of Engineering in Computer Science
GPA: **8.14**

Skills

Data Structures

Languages
- Proficient in **Python**
- Familiar with C and Java
- Familiar with HTML, XML, CSS

Container Technologies:
- **Docker, Kubernetes, Helm**

Messaging System
- **Kafka**

Development Methodology
- **Agile**

Scrum Master

Databases
- **MySQL, MariaDB**

Tools
- BASH, GIT, JIRA, Bamboo, Jenkins, Bitbucket, SVN, GERRIT, Eclipse, IntelliJ, Heidisql, Swagger Editor

Operating Systems
- **Windows, Linux**

Awards & Appreciations

➢ *Given the **component guardianship role** for 3G module for my contribution.*

➢ *Received **Recognition award** for my contribution towards 5G framework support in the product*

Project Details

Cloud Native Framework Services for Eden-Net:

Currently working on adapting cloud native design principles for existing framework of the Eden-Net product.

➢ Worked independently on splitting of multiple services into one app to create independent micro service.

➢ Involved in the introduction of new microservice that involved new algorithm logic for building of new cells in the network, usage of design patterns like chain of responsibility for the same.

➢ Leading the code migration and additional feature introduction like pagination, porting(maintaining common code between two architectures) of another micro service to avoid duplicate work between two architectures.

Technology Used : Python, MySQL, Docker, Helm, Swagger, Kubernetes, Kafka

Also technology used: Java for client introductions to communicate between Python and Java micro services.

SON Framework:

• Support for 5G technology in SON Framework:
5G technology was introduced in Eden-Net Framework for Nokia Vendor. This is an input (providing configuration management data) to modules.

➢ Introduced 5G cells for Nokia.

➢ Introduced Neighbors and relations for 4G-5G and 5G-5G

• Feature enhancements in SON Framework:

Configuration Management which includes cell building, fetch cell details, populate neighbours of cells and other services related to data.

➢ Involved in the feature development and resolution of customer bugs in framework.

Technology Used : Python, MySQL, REST
Team size : 2

Technology Used : Python, Uwsgi, Redis, MySQL

Personal Info:

Megha. N
#5, 2nd main, matadahalli, RT Nagar, Bengaluru
Languages: Kannada, Telugu, Hindi, English

Project Details

SON Modules:

- **Scrambling Code (SC)Reuse Optimization:**

SCReuse is a module in EdenNet product which optimizes the 3G network by resolving issues using SON algorithm.

Technology Used *:* Python, MySQL
Team size: 2

- ➢ Involved in the development of module from scratch which interacts with SON framework services and database

- **Physical Cell Identity (PCI) optimization and Energy Saving Management (ESM):**

PCI is a 4G module which detects and optimizes PCI issues in 4G network.

Technology Used *:* Python

ESM is a module that enables operators to minimize consumption of energy while controlling coverage and quality of service.

- ➢ Involved in feature development/bug maintenance for above modules.

Technology Used : Python,

- **PCI and PRACH modules in iSON Manager:**

iSON manager is java based product which is a SON solution. PCI and PRACH are modules in this product for 4G network.

Technology Used: Java

- ➢ Involved in feature development/bug maintenance for above modules.

Declaration

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

Place: Bangalore

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