



**Harika Arava**



Passionate Telecommunication professional seeking roles in 5G development

Current Designation: Development Engineer  
Current Company: Centre of Excellence in Wireless Technology,  
Current Location: Chennai  
Pref. Location: Bengaluru / Bangalore, Hyderabad, Chennai  
Functional Area: IT Software - Application Programming / Maintenance  
Role: Team Lead/Tech Lead  
Industry: IT-Software/Software Services  
Marital Status: Single/unmarried  
Key Skills: Development Engineer, Team Lead/Tech Lead, Software Development, Design Development, Requirement Gathering, Project Management, 5G NAS Stack Development, Python, Java, SDN, VFN, Wireshark, Postman, Mininet, Open Daylight, Docker  
Verified : Phone Number | Email - id

Last Active: 23-Jan-21

Last Modified: 23-Jan-21

Jump to Section [Work Experience](#) | [Education](#) | [IT Skills](#) |

## Summary

2 years of software development experience in 5G domain  
Expertise in 5G NAS stack and 5G Core Network Function development  
Expertise in C++, C and Object Oriented Programming  
Fair knowledge in Python and Java  
Familiar with Linux kernel module programming  
Good understanding of SDN and NFV architectures  
Hands-on experience with networking tools like Wireshark, Postman and Mininet  
Working knowledge of containerization technologies like Docker

## Work Experience

**Centre of Excellence in Wireless Technology**, as Development Engineer  
Aug 2018 to Till Date

### 5G NAS Stack Development

This project deals with the development of UE 5G-NAS stack supporting 3GPP & Non-3GPP accesses

Worked on the requirement analysis, design and development of NAS layer  
Involved in the architectural design and development of UE Higher layer stacks  
POC for integration of UE Higher layer stacks with L3 stacks of 3GPP & Non-3GPP

Expertise in debugging the N1 procedures in the end-end system  
Working experience on Registration, 5G-AKA, Session management, QOS management, Service Request, and Paging procedures  
Working knowledge of RRC and NGAP procedures

Finer Understanding of Non-3GPP (Untrusted) access procedures  
Security protocols implementation at NAS and USIM  
Finer understanding of specifications (TS 3GPP 24.501, TS 3GPP 23.501, TS 23.502, TS 33.501 and TS 24.502)

### 5G Ran Emulator

5G Ran Emulator is an in-house developed tool by CEWT to emulate the functionality of subsystems in 5G, enabling the end-end testing of procedures  
- Actively Coordinating the integration of UE higher layer stacks (NAS, UE Controller, Data Manager and Connection manager) with Lower layer stacks (RRC and SDAP), USIM and Access Network stub's (both 3GPP and Non-3GPP)  
- Expertise in debugging the issues related to end-end integration of subsystems

### 5G Core - AUSF Development

- Worked on the design and development of AUSF in Service Based Architecture  
- POC for integration and managing end-end dependencies of AUSF in 5G Core  
- Exposure to the development of 5G core NF's (NRF, AMF, SMF and UDM)  
- Finer understanding of specifications (TS 3GPP 33.501 and 29.509)



## Important

- Using Free CV Search you have access to featured candidate profiles of Naukri. You can browse through the profiles and email the candidates of your choice directly using the email option provided. To prevent misuse of candidate information, contact details and attached resume of the candidates have been withheld.

[^ Back to Top](#)

## Education

UG: **B.Tech/B.E (Electronics/Telecommunication)** from **Indian Institute of Information Technology (IIIT), Sri City** in **2018**

[^ Back to Top](#)

## IT Skills

Skill Name	Version	Last Used	Experience
C++, C, Java and python			
Wireshark, Postman, Mminet,			
Open Daylight (SDN Controller), Docker			
5G, SDN and NFV			

[^ Back to Top](#)

## Languages Known

Language	Proficiency	Read	Write	Speak
ENGLISH				
HINDI				
TELUGU				

[^ Back to Top](#)

## Affirmative Action

Physically Challenged: No

## Work Authorization

Job Type: **Permanent**

Employment Status: **Full time**

[^ Back to Top](#)