# NITHISHKUMAR P

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Website
GitHub

## OBJECTIVE

I am an enthusiastic and motivated Computer Science graduate with a strong interest in 5G communication, networking, and system hardware Skilled in system assembling, troubleshooting, and virtual technologies. Passionate about applying new technologies to real world challenges and seeking opportunities in 5G development, networking, and IT infrastructure.

## WORK EXPERIENCE

- Intern RAN Engineer DADB German Academy of Degital Education
  - Worked with Free5gc and ueransim, Mobaxtream, Powder Wireless and Linux
  - 5G technology solutions, including eMBB, URLLC, and mMTC use cases, resulting in enhanced network performance and user experience across various applications.
- System Assembling and Troubleshooting over 6 Months Experience by Own

## EDUCATIONAL QUALIFICATION

- **Bachelor of Engineering (B.E.), Computer Science and Engineering**
  Varuvan Vadivelan institute of technology, Tamil Nadu**(11/2021 – 06/2024)**
  **CGPA: 7.8**

## PROJECT

**End to End Simulated 5G Network/Test Bed using free5GC Core Network and UERANSIM**
- Build a 5G network testbed using free5GC as the core network and UERANSIM for UE and gNodeB simulation.
- Investigate the effects of different Quality of Service (QoS) configurations on multimedia streaming performance and suggest improvements for low-latency applications.

**Sensor Based Shopping Assistance System For Pwds:**
- Built an IoT-based solution using sensor technology to assist people with disabilities (PwDs) in shopping.
- This may easier shopping for person with disabilities.

**Student Information Management System(Mini Project):**
- Developed a web-based system to manage student records using Java and MySQL.
- It will helps the management to monitor the student Data.

## TECHNICAL EXPERIENCE

- Intern experience in **RAN** (Radio Access Network) optimization of **RAN and RF systems for 5G campus networks**, achieving substantial improvements in coverage and reliability for high-density environments.
- **System Support & Troubleshooting** – Diagnosed and resolved hardware, software, and network issues for desktops, laptops, and peripheral devices.
- **Operating Systems & Software** – Installed, configured, and maintained **Windows 10/11, Ubuntu, Kali Linux,** and enterprise applications such as **Office 365, VPNs, and antivirus solutions**.
- **Networking & Connectivity** – Troubleshot **LAN/WAN, TCP/IP, VPN and Wi-Fi** issues, ensuring seamless network access for end users.

## TECHNICAL SKILLS

- **Hardware :** Hardware Related Issues , Desktop Support, System Management, Network Support, Software Installation and Technical Assistance.
- **Networking:** 5G Communication Development on DADB, Network Engineering (Cisco)
- **Cloud & Hosting:** AWS Web Hosting (Basics).
- **Programming:** C#, Java.
- **Database System:** MySQL.

## JOB RESPONSIBILITIES

- Developed and tested an End-to-End Simulated 5G Network/Test Bed using free5GC Core Network and UERANSIM.
- Investigated the impact of various **QoS (Quality of Service) configurations** on multimedia streaming performance.
- Collaborated with the research team in aligning testbed with **IEEE testbed standards**.
- I was giving support of 100+ systems including Desktop, Laptops.
- Provide support for hardware, software, and network issues.
- Network Troubleshooting – Diagnose and resolve LAN, WAN, Wi-Fi and VPN.
- Remote Assistance – Support users through remote desktop tools like AnyDesk and Windows remote.
- Ensure systems are up to date with security patches and antivirus protection.
- Adding/deleting/modifying user account information, resetting passwords and Troubleshooting .

## TOOLS EXPERIENCE

- Virtual Machine(Vmware, Oracal Virtual Box)
- Free5gc WEBconsole
- Ueransim
- MobaXterm
- IEEE Testbed
- Matlab
- Cisco Packet tracker
- Visual studio code

## CERTIFICATION

- 5G Communication Technology Intern in DADB (02/2025 – 05/2025)
- Networking Basics – Cisco (02/2025 - 03/2025)
- MATLAB Onramp , MATLAB Signal Processing, MATLAB Wireless Communication (02/2025-03/2025)
- Full Stack Development with Java – Tamil Nadu Skill Development Corporation &
- Sun Stone (08/2023 - 11/2023)
- CCNAv7 – Cisco (02/2023 - 06/2023)

**Online Courses:**
- Java Beginner-Level Course, Udemy.
- HTML and CSS Beginner-Level Course, Udemy.

## PERSONAL INFORMATION

Name: Nithishkumar P
Date of Birth: 16/02/2002
Father Name: Perumal
Marital Status: Single
Nationality: Indian
Language: English and Tamil

## PERMANENT ADDRESS

3/128 Ettiyanur (Vill), Erresegalahalli(post), Karimangalam (Tk), Dharmapuri, Tamil Nadu - 635106.

I hereby declare that the above information is true to my knowledge and belief.

Place:                                                                                                  **(Nithishkumar P)**
Date: