Prasad Narayan Kachawar

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Profile

Telecom professional with 8+ years' experience in 4G/5G protocol stack l with **5 years of experience in 4G/5G protocol stack development**, specializing in Layer-3/2 design, feature enhancement, and system optimization. Proven track record in DU development for 5G networks with hands-on expertise in debugging, real-time log analysis, and performance tuning. Known for delivering stable, scalable features under aggressive timelines across multiple telecom platforms. 3 years in performance and optimization for 4G/MME/SGW/PGW node in network with hands-on experience AI and ML scripting, Strong analytical and problem-solving abilities with a focus on innovation and efficiency, good understanding for Generative, speech, agentic AI system with memory unit also wide knowledge on Digital Twin for Infra/Wearhouse management and **Good Hand of GEN AI ,LLM,MCP,REG,LAG-Chain**

Technical Skills

- C, C++, Python, Java
- Linux and Unix systems
- Debugging tools (GDB, Valgrind, fsanitizer)
- Network analysis (Wireshark)
- MLops
- Debugging tools (GDB)
- AI- Generative, LLM,MCP,RAG,speech, agentic

- Data structures and algorithms
- Integrated development environments (Eclipse, Visual Studio)
- Platform: Kubernetes, Docker, Linux, Windows
- Networking – 3GPP, 5G_NR, LTE, layer3/2Protocol, LTE, EPC Core (MME.SGW.PGW)
- Framework – Spring boot
- Digital Twin for infra management

Experience

Generative AI & Agentic Systems Knowledge

- Strong understanding of Generative AI frameworks including LLMs (GPT-5) and their integration into real-world applications.
- Familiar with Agentic AI architectures — including memory management, tool use, planning, and autonomous decision-making for intelligent agents.
- Knowledge of Speech AI systems, covering speech recognition, speech synthesis, diarization, and LLM-based conversational flow optimization.

- Hands-on exposure to MCP (Model Context Protocol) for enabling efficient communication and structured interaction between applications and LLMs.

- Practical awareness of context-aware multi-agent collaboration, prompt engineering best practices, and AI reasoning workflows.

- Experience with Retrieval-Augmented Generation (RAG) — designing vector stores, building retrievers, optimizing chunking strategies, and integrating knowledge bases to enhance factual accuracy and domain grounding.

- Proficient with LangChain memory frameworks (ConversationBufferMemory, ConversationSummaryMemory, VectorStoreRetrieverMemory) for maintaining long-term conversational context and improving agent continuity.

- Implemented end-to-end RAG pipelines and agent workflows using LangChain and LlamaIndex for enterprise search, knowledge retrieval, and automated decision-making scenarios.

Radisys India Pvt. Ltd. — Bangalore (Remote)

LEAD ENGINEER (APR 2023 – PRESENT)

- Working on vRAN product (Dens-Air)
- Successfully Designed and implemented feature Multi FH interface on split6 for 5G .
- Successfully Designed and implemented feature Multi F1 interface on split6 for 5G .
- Developed and integrated Performance Monitoring (PM) counters.
- Led real-time log analysis and resolved CU/DU bugs to improve stability.
- Addressed critical Fsanitizer issues, enhancing code quality and memory safety.

Cyient India Pvt. Ltd. — Hyderabad

LEAD ENGINEER (NOV 2022 – APR 2023)

- Working on vRAN product for DU/ CU
- Led the design and development of 5G NR, DU/CU.
- Developed Grafana dashboards for performance monitoring and management.

GS Lab Ltd. — Pune

SENIOR SOFTWARE ENGINEER (OCT 2021 – OCT 2022)

- Implemented feature scalability for ONF-MME/SPGWC to support 2X users and 24X eNBs.
- Developed Grafana dashboards for performance monitoring and management.
- Developed and integrated Performance Monitoring (PM) counters.
- Led real-time log analysis and resolved CU/DU bugs to improve stability.

Altran (Aricent Technologies). — Bangalore (Remote)

SOFTWARE ENGINEER (FEB 2021 – OCT 2021)

- Developed the NR_POSITIONING feature for L3-gNB.
- Gained experience in product lifecycle development and maintenance.
- Worked on 5G-NR development (gNB CU/DU - L3 layer).

- Led real-time log analysis and resolved CU/DU bugs to improve stability.

Vodafone-Idea - Pune (Remote)

INCIDENT AND FAULT MANAGEMENT ENGINEER (NOV 2020 – FEB 2021)
- Managed packet core network incidents and faults.
- Worked on Huawei and ZTE nodes.

Reliance Jio Info-Comm Ltd. - Navi-Mumbai

INCIDENT AND FAULT MANAGEMENT ENGINEER (AUG 2018 – OCT 2020)
- Managed packet core network performance and KPI monitoring.
- Led real-time log analysis and resolved MME/SGW/PGW bugs to improve stability.
- Conducted pre- and post-analysis of network activities (upgrade, deployment, configuration, migration).
- Developed automation scripts using Linux and Python for server configuration and auditing.

Samsung India Electronics Ltd. - Navi-Mumbai (JIO NOC)

GRADUATE ENGINEER TRAINEE (MAR 2017 – AUG 2018)
- Developed automation scripts using Linux and Python.
- Led real-time log analysis and resolved MME/SGW/PGW bugs to improve stability.

Education

BACHELOR OF ENGINEERING (ELECTRONICS & TELECOMMUNICATION) PIMPRI CHINCHWAD COLLEGE OF ENGINEERING – 2016 | 66.6%

Social Activities
- Active member of the Blood Donors Club at PCCOE.
- Volunteered in organizing NSS camps to support local communities.

Patents

SMART BOXES NOTIFYING UNAVAILABILITY OF GROCERY
- Application Number: 4488/MUM/2015

WALLET PROTECTION AND MONITORING USING SMARTPHONE
- Application Number: 4614/MUM/2015

SMART REMOTE ACCESSING DEVICE (FOR TV)
- Application Number: 4615/MUM/2015

Disclaimer

I hereby declare that the information provided above is true and accurate to the best of my knowledge.

Languages
- Marathi

- English
- Hindi

Personal Information

- Date of Birth: 30/05/1995
- Marital Status: Married