

KIRUBAKARAN SELVARAJ

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Objective:

To work in the field of Networking and Embedded Systems where I can apply my skills in C programming and Linux. Looking for opportunities to contribute in networking projects, system-level programming, and embedded development while continuously learning and growing in the technology domain.

Skills:

Programming: C, Python, Shell Scripting

Networking: TCP/UDP, Subnetting, Routing Protocols (RIP, OSPF), VLANs, Packet Tracer, GNS3, Wireshark,

Concepts: Data structures, Pointers, Memory Management, File Handling, Threads.

Tools & IDEs: GCC, GDB, Wireshark, JIRA.

Operating Systems: Linux, Windows.

Database Skills: SQL

Experience

Associate

Cognizant Technology and Solutions| Chennai, Tamil Nadu | September/2022 – Present

Client: Merck & Co

Application Development in C:

- Designed and implemented modular, reusable code for various applications.
- Developed memory-efficient programs using pointers, structures, and dynamic allocation(malloc,calloc,free).
- Optimized algorithms for sorting, searching, and file handling, improving execution time up to 30%.

Networking & Socket programming:

- Built and maintained TCP/UDP socket-based applications (chat systems, file transfer utilities).
- Implemented multi-threaded client-server models to support concurrent users.
- Developed a basic packet sniffer using raw sockets to analyze TCP/IP traffic.
- Integrated checksum algorithms to validate data integrity in transmission.

Debugging & Troubleshooting:

- Used GDB and Valgrind extensively to debug segmentation faults, memory leaks, and logical errors.
- Applied Wireshark for real-time packet inspection and network traffic debugging.

Volunteered & Extracurricular:

- ☐ Part of Outreach event I was conducted placement training to NGO students.
- ☐ Part of Outreach event I conducted a Mock interview to Engineering students which was part of NAAN MUDHALVAN Scheme.
- ☐ National Green Crop Member in School days.
- ☐ Attended 'Emerging trends in English' workshop in Kongu engineering college.

Language Known:

- ☐ Tamil – Native Language
- ☐ English – Profession

I, S. KIRUBAKARAN, do hereby confirm that the information given above is true to the best of my knowledge.

Yours faithfully

Kirubakaran S