

# Aman Kumar

## System Software Engineer

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### SUMMARY

System Software Professional with almost a decade of experience in design and development embedded and large scale software systems. Linux and open-source R&D enthusiast. Worked on wireless technologies from WiFi to Cellular. Authored several device drivers and currently working as a 5G solution architect, developing 5G base station software for large scale deployment leveraging cloud native technologies.

### PROFESSIONAL SKILLS

- Languages: C, C++
- Scripting: Linux Bash, Python, HTML, CSS, JavaScript
- Platforms: Arm, x86, AMD x86\_64, Linux, RTOS, K8s, Redhat's OCP, Android
- Tools: TM500, Amarisoft, IXIA, Xena, JIRA, Confluence
- Open source involvement: DPDK, ODP, Google EC project, Linux
- Software Version Control: SVN, GIT (Github, Gitlab, Bitbucket)

### PRODUCTS

- WiFi and Routers: Enterprise router solution, NMS, L2/L3 Switches, CPEs
- Cellular: L1 function accelerators, RAN SW Virtualization, 5G RU (ORAN), System virtualization, K8s and OCP operators
- Datacenter: OVS offload solution, IPsec crypto suite
- Embedded: IP Cameras, IOT Gateways, USB dongles, Accelerators

### TECHNOLOGIES

- Networking: Linux TCP/IP stack, Linux Netdev, Fastpath networking, ODP, DPDK, OpenStack, VPP, NR Radio stacks, Data Center networking
- Platforms: Redhat OCP, RHEL, Debian, K8s, Containers, Yocto, Petalinux, RTOS
- Others: L2/L3/L4 Security, Cryptography (AES, DES, etc), Graphics technologies

### INTERESTS

- Develop video games and graphics (Blender, Unreal Engine, etc)
- Play chess and video games
- Space science, Metaphysics, Spirituality
- Machines and Engines, rocket science
- Artificial Intelligence
- Writing Blogs & Articles on science and technology

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