

Open Source Software Developer Remote VideoLAN Org./Google Summer of Code Jun 2020 – Sep 2020 Selected among 9000+ applicants (~**13.4%**) in GSoC 2020 Open Source program; Made VLC Media Player accessible via remote command line access or Android apps (MPDroid), contributions merged upstream. Developed a **multi-threaded** MPD server as an OS level control module in **C/C++** using **POSIX threads** and **Socket Programming** to handle **100+ concurrent** client requests over a local network. Integrated the server with core **VLC API** to enable **remote queries** for playback control and media management. Reduced **C++** network latency by ~ **40%** and unit-tested modules for concurrency, file handling, and synchronization.

Software Engineering Intern Bangalore, India Samsung R&D Institute Jan 2020 – Jun 2020 Developed **network logger** tool for codebase migration from *3.95G* to *4G* and **automation scripts** for **85+** network simulations for **real time monitoring** of metrics like SNR, latency & packet loss. Reduced simulation time by implementing parallelization and multi-core support, speeding up checks by **25%**. Led an intern team to develop and integrate a **React dashboard** to monitor above changes and visualize **KPIs**.