Open Source Software Developer RemoteVideoLAN Org./Google Summer of Code Jun 2020 – Sep 2020 Selected among 9000+ applicants ($\sim$**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 **Java** using **JDBC** and **MySQL** to handle **100+** client requests over a local network. Integrated the server with core **VLC API** to enable **remote queries** for playback control and media management. Reduced network latency by $\sim$ **40%** through optimized Java network handling and performed unit tests to ensure robustness.

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* using **Java** and **JDBC** with **MySQL** backend; created **automation scripts** for **85+** network simulations for **real-time monitoring** of metrics like SNR, latency & packet loss. Reduced simulation time by implementing parallel processing in Java and multi-core support, speeding up checks by **25%**. Led an intern team to develop and integrate a **Java-based dashboard** to monitor changes and visualize KPI metrics.