

# Deepak Singh Rawat

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## Summary

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Software Engineer with 10+ years of professional experience. Interest in Linux system programming; platform software development, operating systems; computer networks; graphics; Free and Open Source Software. Expert-level knowledge of C and C++. Hands-on experience with all layers of the Linux software stack, from hardware and device support to 3D and GUI programming.

## Experience

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### Microsoft, Senior Software Engineer Sep 2019 – Present, Redmond, WA

- Developed and maintained internal Linux distro for embedded hardware based on Yocto project. Contributed to various open source projects upstream.
- Maintainer of Hyper-V DRM driver for Linux kernel.
- Moved internally to work on the video platform team responsible for video calling for Teams and Skype.
- Working on adding features to enhance and maintain Teams video calling.
- Developing API to enable device categorization based on decode capability.

### VMware Inc, Member of Technical Staff Feb 2017 – Sep 2019, Palo Alto, CA

- Worked on Linux graphics stack for VMware virtual GPU with focus on Linux kernel direct rendering manager subsystem and mesa 3D graphics library.
- Contributed to “plane update with damage” feature in Linux kernel direct rendering manager subsystem.
- Added SM4.1 support for VMware virtual GPU kernel mode driver.

### Samsung Research America, Software Engineer May 2016 - Feb 2017, Mountain View, CA

- Worked on open source Android virtual reality rendering library called GearVRf.
- Plugin development for 3D rendering library.

### Samsung Research America, Software Engineer Intern May 2015 - Aug 2015, Mountain View, CA

- Worked on open source Android virtual reality rendering library called GearVRf.

### MediaTek Inc, Senior Software Engineer Nov 2011 - Jul 2014, New Delhi, India

- Software development for the feature phone product line of MediaTek on an embedded platform.
- Developed multimedia framework and multimedia middleware layer.

### Infosys Ltd, Systems Engineer Dec 2009 - Nov 2011, Bangalore, India

- Web based application development using Java technologies.

## Technical Skills

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C, C++, Java, Perl, Bash Scripting, Python, Linux, Driver Development, 3D Graphics, Embedded System, GDB, Git, Object Oriented Design, Data Structures, Android

## Education

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### University of Southern California, Los Angeles, CA

Master of Science, Computer Science

### Hemwati Nandan Bahuguna Garhwal University, Pauri Garhwal

Bachelor in Engineering, Computer Science and Engineering