I like to solve problems and I'm eager to engage in research and development within a supportive, challenging environment.

Shreenidhi Shedi

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Education

Visvesvaraya Technological University

B.E Computer Science – 2014

Contribution Links:

[Top Contributor - PhotonOS](https://github.com/vmware/photon/commits?author=sshedi)

[Cloud-init](https://github.com/canonical/cloud-init/commits?author=sshedi)

[Linux kernel](https://lore.kernel.org/lkml/?q=yesshedi)

[RPM](https://github.com/rpm-software-management/rpm/commits?author=sshedi)

[Linux-PAM](https://github.com/sshedi/linux-pam/commits?author=sshedi)

[Cpython](https://github.com/python/cpython/commits?author=sshedi)

[Dracut](https://github.com/sshedi/dracut/commits?author=sshedi)

[libnss-ato](https://github.com/sshedi/libnss-ato/commits?author=sshedi)

[TDNF](https://github.com/vmware/tdnf/commits?author=sshedi)

[U-boot-cdns\_wdt.c](https://github.com/u-boot/u-boot/blob/v2024.10/drivers/watchdog/cdns_wdt.c" \l "L6)

[U-boot-xilinx\_tb\_wdt.c](https://github.com/u-boot/u-boot/blob/v2024.10/drivers/watchdog/xilinx_tb_wdt.c" \l "L6)

# Skillset

System Programming: Extensive experience in Linux system programming, encompassing a wide range of development tasks and solutions.

Linux Kernel Internals: Strong knowledge and hands-on experience with Linux kernel internals.

Device Driver Development: Fundamental understanding of Linux device driver development.

Architectures: Experience working on Linux (amd64, arm) and microcontrollers.

Problem Solving: Proven ability to tackle complex problems and implement effective solutions.

Open Source Contribution: Regular contributor to various open-source projects, demonstrating commitment to community and collaboration.

Programming Languages: Hands on experience with C, Bash, Python, and Golang

# Open Source Contributions

Actively contributed to a range of open-source projects, including U-Boot, Canonical cloud-init, WALinuxAgent, Dracut, Linux Kernel, RPM, and CPIO, among others.

# Work History

### VMware, Inc. by Broadcom | July 2019 – Current

### R&D Software Engineer 4

Contributed to Photon OS, VMware's open-source Linux distribution, including various commits to enhance functionality and performance.

Developed and maintained the TDNF package manager, ensuring efficient package management within the OS.

Played a key role in the design and implementation of multiple system components, driving innovation and reliability.

Actively maintained and improved critical packages such as RPM, Cloud- Init, and Open VM Tools.

Led CI/CD initiatives to streamline development workflows and improve deployment efficiency.

Resolved critical OS and application bugs, delivering effective solutions that enhance stability on Photon OS.

Received multiple awards, including cross-business unit accolades, recognizing contributions and dedication.

Provided guidance and mentorship to junior engineers, fostering a collaborative and knowledge-sharing environment.

### Verifone, Inc. | February 2018 - July 2019

### SDE2

Led the design and development of the VHQ Agent, focusing on robust firmware solutions.

Provided global customer support, collaborating across teams to resolve issues effectively.

Developed a comprehensive test automation framework for agent functionalities, enhancing testing efficiency and reliability.

### Global Edge Software Ltd. | July 2014 - January 2018

### Software Engineer

Spearheaded firmware upgrades for Avnet Microzed-7z010, including USB driver development and automated build systems.

Developed multi-platform firmware upgrade applications and a watchdog driver in U-Boot.

Designed and maintained firmware for Tiva 1232E6PM/123GH6PM MCU, resolving RS232/RS485 communication issues and integrating MCU sensors with Linux.

Implemented I2S data transmission over seven hops with precise timing, enhancing capture and playback modules.

Created a DLNA Control Point, facilitating device discovery and porting to the Genivi (IMX.6) platform.