



**Koneru Lakshmaiah University (KLU)**

# **End Semester Evaluation Report**

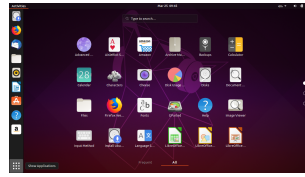
**40 Marks**

Course: **OPEN SOURCE ENGINEERING**

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Program: CSE  
Semester: 3  
Evaluation Date: 26-11-25

Submitted to: HTE DEPARTMENT

# My Ubuntu Experience

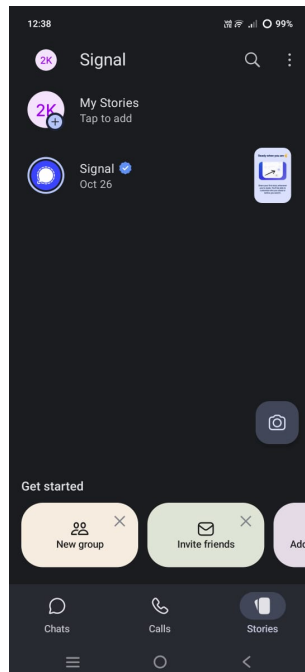


I chose to work with the **Ubuntu Linux distribution** for this project. During installation, I faced challenges with drivers and package dependencies, but gradually learned to resolve them using the terminal and package manager (APT). Some key experiences include:

- Installing and configuring essential packages like `git`, `gcc`, and `vim`.
- Learning to use `apt-get` and `snap` for software management.
- Setting up GPG encryption keys for secure communication.
- Exploring privacy tools and configuring firewall settings.
- Hosting a self-contained server on Ubuntu for testing open-source contributions.

Overall, Ubuntu provided me with a strong foundation in open-source practices, and every hurdle I overcame became a valuable learning milestone in my journey.

## Privacy Tool: Signal



**Signal** is an open-source, end-to-end encrypted messaging application that focuses on privacy and security.

## My Experience

I used Signal to send encrypted messages during this project. The installation was straightforward, and I appreciated its clean interface.

## Privacy Tool: ProtonMail

**ProtonMail** is a secure email service based in Switzerland that offers end-to-end encryption and strong privacy protections.

## My Experience

I used ProtonMail to send encrypted emails during the project. The web interface was simple, and I appreciated its automatic encryption features.

## Privacy Tool: Tor Browser



**Tor Browser** is a privacy-focused browser that routes traffic through the Tor network, anonymizing user activity and protecting against surveillance.

## My Experience

I used Tor Browser to access websites anonymously. While browsing was slower due to multiple relays, it gave me confidence that my online activity was hidden from trackers and ISPs.

## Privacy Tool: Nextcloud

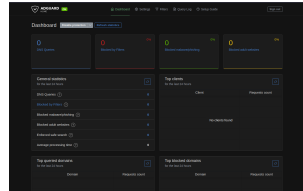


**Nextcloud** is an open-source, self-hosted cloud storage solution.

## My Experience

I installed Nextcloud on my Ubuntu server to host files privately. The setup taught me about self-hosting challenges, like configuring PHP and database connections.

## Self-Hosting Server: AdGuard Home



**AdGuard Home** is a network-wide software for blocking ads and trackers.

## My Experience

Running AdGuard Home as a self-hosted server gave me a sense of independence and control. I learned the importance of firewall rules, DNS configuration, and patience when troubleshooting.

## Open Source License: GPL

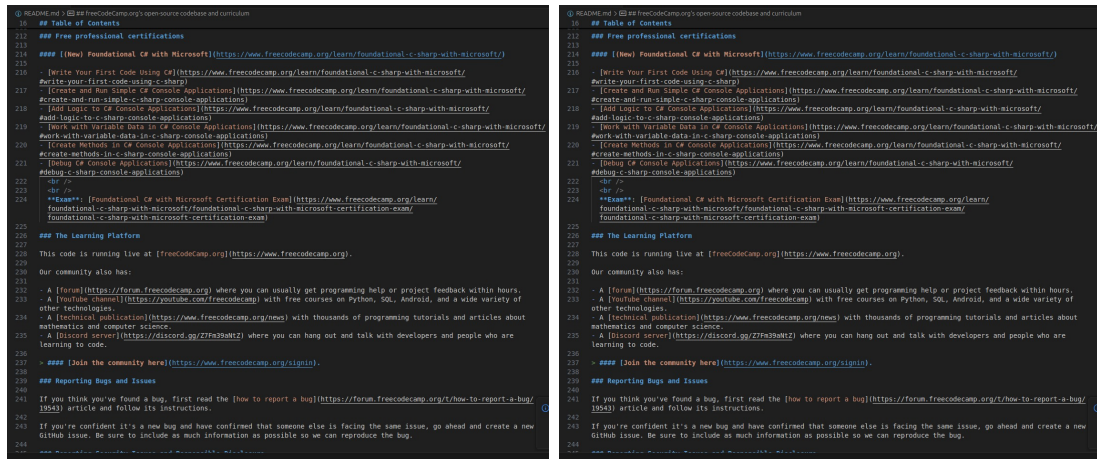


**GNU General Public License (GPL)** is one of the most widely used open-source licenses.

## My Experience

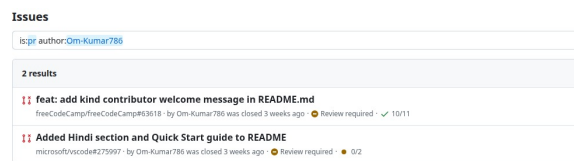
For my project, I chose the GPL license because it aligns with the philosophy of open-source engineering. By using GPL, I ensured that my contributions remain free for others to learn from and build upon.

# Open Source Contributions: FreeCodeCamp



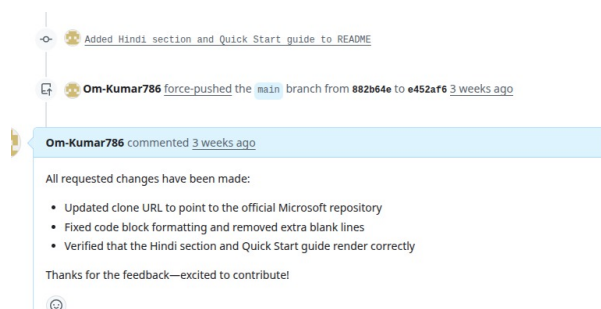
I contributed to the **FreeCodeCamp** repository by fixing issues and improving documentation. The screenshots above show my coding work and the changes I made in the repository.

## Errors Encountered



During my contributions, I faced errors related to syntax and build failures. This was a challenging part of the process, but it helped me learn debugging and problem-solving skills in a real open-source environment.

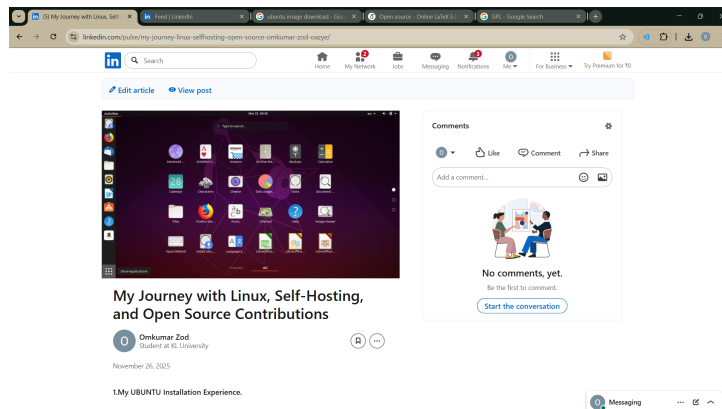
## Rectification and Merge



After identifying and fixing the errors, I contacted the repository maintainer and discussed the changes. My pull request was successfully merged, which gave me confidence and motivation to continue contributing to open-source projects.

# LinkedIn Posts

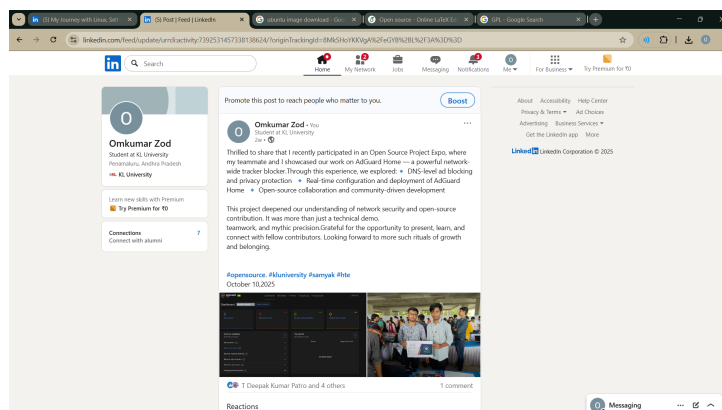
## Self-Hosting Server Post



This LinkedIn post documents my experience of setting up and running the **AdGuard Home self-hosting server**.

Link: <https://www.linkedin.com/in/omkumar-zod-75074438a/>

## Blog Article Post



This LinkedIn article reflects my authentic journey with Linux, self-hosting, and open-source contributions.

Link: <https://www.linkedin.com/feed/update/urn:li:activity:7392531457338138624/?originTrackingId&for=8MkSHoYKKVgA%2FeGYB%2BL%2F3A%3D%3D>