

# Laxmi Chapagain

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Portfolio: <https://laxmichapagain.github.io/My-Portfolio/>

Blog: <https://laxmichapagain1996.medium.com/>

**Summary:** Currently a final year student enrolled in Electronics and Communication Engineering with an interest in hardware and software programming. I aim to solve real-world problems using technology.

## Education

- B.E. in Electronics and Communication Engineering Tribhuvan University, IOE, Purwanchal Campus, Nepal | 2017 - Present
- +2, New Capital College with aggregate percentage: 82.80% | 2014 - 2016
- SLC, Sky Rider Higher Secondary English Boarding School with aggregate percentage: 88.13% | 2003 - 2014

## Skills

- Programming language: Javascript
- Frameworks: React js, Bootstrap
- Web Development: HTML, CSS
- Version Control System: Git
- Arduino Uno
- Excellent Writing Skills, Reporting, Scientific Communication and Oral PPT presentation, MS Office ( MS Word, MS Excel, MS PowerPoint),
- Able to work individually and in a team
- Organization skills and multitasking analytical skills

## **Project Experience**

### **“Design, Fabrication, and testing of Maze Solver Robot”**

- A robot made using Arduino, ultrasonic sensor, and motor driver which can detect obstacles in its way and can switch its way avoiding obstacles.
- I was responsible for maintaining hardware connections as per the design specification.

### **“Vertical Farming Monitoring and Automation System”**

- Integration of Temperature, Humidity, Soil moisture, ph sensor for building an automated hydroponic system. This simulation was done in proteus and includes Arduino, LCD, DC motor, and different sensors.
- I performed a simulation of the entire project and debugging of code especially associated with the ph sensor and Arduino.

### **“Wash-alarm system as a participation project for an event 'Washinnovation'”**

- For this project, we made an alarm system for public toilets using an Arduino which automatically detects people exiting and reminds them to wash their hands after use of the toilet.
- I wrote code for Arduino and performed a voice-over for the alarm prompt.

### **“Hamro Krishi - A web application for farmers”**

- A web application that provides farmers, consumers, wholesalers, and retailers a common platform for managing the agro-products supply chain.
- **Technology Used: HTML, CSS, Bootstrap, and Node js.**
- Mostly, my contribution was in front-end development as per the design specification provided to me.

**I have developed a number of web pages during my web development learning journey which I have kept in the 'My Projects' section of my own developed portfolio.**

## **Community Engagements**

### **Volunteering Outreach Coordinator, Girls In Tech -Nepal (Feb 2021 - present)**

Responsibilities include:

- Building strategic relationships with all the relevant stakeholders globally.
- Facilitating, conducting meetings, and hosting various community interaction events aimed at inspiring and empowering young girls in technology.

### **Women Leaders in Technology(WLiT) Fellow 2021( October 2020 - July 2021)**

- WLiT Fellowship is a nine-month-long fellowship given to outstanding Techie girls from Nepal. We learned the fundamentals of Version Control System, Design

principles and UI, Nodejs, Database(Mongo DB) including Queer inclusivity and disability-friendly tech during the virtual Bootcamp followed by a session on goal settings, leadership, and followership, teamwork, time management, impactful problem solving, I am remarkable and internship Etiquettes. During my fellowship, I got an opportunity to work as a **“Software Engineer Fellow”** at a very reputed company **“Leapfrog Technology Inc”**. Furthermore, we had regular meetups where we got an opportunity to know more about Hour Of Code, Financial Literacy, Emotional Intelligence, QA, Project Management, Cyber Security, Ethical Tech.

## **Events**

### **Webinar on “Career Opportunities in IT and Required Skills”**

- I facilitated a webinar on “Career Opportunities in IT and Required Skills” conducted by Butwal Coder Girls -Nepal. I focussed mainly on career choices a student can set and the required skills for corresponding choices. My contents included my research and experience of working as a software engineering fellow at Leapfrog Technology Inc, including interviews with highly successful people in the tech industry. The motive of this webinar was to educate our youngsters regarding options in their careers so they can make proper career choices and work for their choices. This webinar was given to first-year students of the Oxford College of Engineering, Nawalparasi.

### **Speaker of “Open House”**

I was in the panelist of WLiT “Open House” where I shared my experiences as WLiT alumni and discussed on status of girls in Technology along with that we took relatable queries from our audience as well.

### **Conducted “Hour of Code” to school-level student**

We, three WLiT Fellows conducted Hour of Code(HoC) to grade 9 and 10 students of Sky Rider Higher Secondary English Boarding School of Tandi, Chitwan to show that anybody can learn the basics of computerScience and to increase the participation of students in the field of ComputerScience.

### **Volunteered Trainer of “Microsoft Office Bootcamp ”**

**Girls In Tech-Nepal** in collaboration with **“Shareskill Nepal”** organized three weekly long virtual Bootcamp for training different orphanages. I was a trainer for **“Powerpoint”** and taught 19 orphans of different age groups.

Besides facilitating different community-level events, I have been actively hosting different national-level technical events on my campus and Girls In Tech-Nepal.

## **References**

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