

# Safal Karki

📍 Nepal ✉ karkisafal01@gmail.com ☎ 9803160656 🌐 safalkarkey.github.io/

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## SUMMARY

I'm a software engineering graduate and AI/ML enthusiast with a deep interest in computer science. I love critically analyzing problems and coming up with solutions. My skill set includes development tools in both web and software domains, as well as data analytics in Machine Learning realm.

I am also comfortable in getting my hands in low level stuffs using C/C++. I can efficiently work in either Windows or Linux Operating Systems. I also harness the power of shell scripting using powershell and bash to automate my workflow.

My passion for learning and problem solving drives me in both my work and hobbies.

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## PROJECT

### Virtual Hand Simulation

- Unity Application Development.
- Simulation of hand gestures from data collected by sensors on hand glove.
- System of NodeJS server, Unity Application and Microcontroller.
- Worked in a team of four.

### Humanoid Robot

- Development of Humanoid Robot Model
- Simulation of movement in simulation software
- Lua Scripting Language and Coppeliassim API for simulation
- Implementation in hardware
- System of NodeJS, ESP32, ESP32CAMs
- Dynamic logic and control system
- Worked in a team of four as part of Undergrad Major Project

### Portfolio Website

- Personal portfolio website
- Description about me, my education, projects, skills and contact info

### Flappy-NP

- Flappy Bird Clone with Nepali theme
- Web App, implemented using JavaScript
- Utilized game development logic

### Census Data Visualization

- Visualize Census Data of Nepal by Province
- Made in Datawrapper
- Multiple Categories and Sub Categories as per Census Data of Nepal, 2021

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## EDUCATION

### Bachelor in Electronics, Communication and Information Engineering

Institute of Engineering, Thapathali Campus • 2025

### +2 Science Physics Stream

Southwestern State College • 2021

### Secondary Education Examination (SEE)

Greenland High School • 2018

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## SKILLS

Application Development: C#, C++, Unity, Python, JavaScript, HTML5, CSS

Linux Systems, Shell Scripting, Bug Finding, Cyber Security tools

Machine Learning/Artificial Intelligence: Data Mining, Image Processing

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