

PRAJU KHANAL

Kusunti-13, Lalitpur, Nepal | (+977) 984 038 4530 | prajukhanal21@gmail.com
LinkedIn: [linkedin.com/in/praju-khanal/](https://www.linkedin.com/in/praju-khanal/) | GitHub: github.com/Praju2002

SUMMARY

Computer Engineering graduate eager to apply academic knowledge and hands-on project experience in real-world settings. Skilled in web development, computer vision, and algorithms, with a strong foundation in problem-solving and a passion for continuous learning and adapting to new technologies.

EXPERIENCE

Fellow | Women Leaders in Technology (WLIT)

Oct 2024 - March 2025

- Gained hands-on experience with JavaScript, Node.js, Express, MongoDB, Git, and EJS.
- Developed SootheSphere, a sound therapy app with personalized soundscapes based on user mood and dynamic interfaces for mood tracking and journaling.
- Attended leadership sessions on goal setting, values, empathy, and time management.

Contributor | GirlScript Summer of Code

Oct 2024 - Nov 2024

- Identified and raised key issues in open-source projects, improving UI, search functionality, and message management.
- Proposed and documented feature enhancements such as disappearing messages, search filters, and resource categorization.
- Collaborated with international teams to refine projects through issue tracking and discussions.
- Actively contributed to GSSoC and Hacktoberfest, gaining experience in open-source workflows, Git, and version control.

EDUCATION

Everest Engineering College, Pokhara University

2021-2025

Bachelors in Computer Engineering

St. Mary's Higher Secondary School, National Examination Board (NEB)

2017-2019

High School Diploma (Science)

TECHNICAL SKILLS

- Programming:** JavaScript, C, C++
- Web Development:** MERN Stack (MongoDB, Express, React, Node.js)
- Databases:** MongoDB, MySQL, PostgreSQL
- Tools & Platforms:** Git, D3.js, OpenStreetMap, Socket.io

PROJECTS

Maze Generator (MERN Stack, D3.js)

[Github](#)

Sept 2024

- Developed an interactive maze generator using MongoDB, Express, React, and Node.js.
- Implemented maze generation with Kruskal's and Prim's algorithms.
- Visualized maze creation and performance metrics using D3.js.
- Implemented heuristic-based Depth First Search (HDFS) for maze solving.

Text Compressor Using Huffman Encoding (C++)

[Github](#)

Oct 2023

- Designed and implemented a lossless file compression tool using Huffman encoding algorithm, reducing storage size efficiently.
- Integrated file I/O and directory management with user-friendly feedback using QMessageBox.
- Built a custom Huffman Tree structure and encoded/decoded data using frequency-based binary codes.

DocuFind (OpenCV)

[Github](#)

July 2025

- Developed an adaptive system for reliable word detection in various document images, starting with an optimized preprocessing pipeline.
- Compared different methods (pixel-based and feature-based) to accurately find words in challenging, real-world documents.
- Tested the system across various types of degraded images (like crumpled, low contrast, and different fonts) to ensure broad effectiveness.
- Created an "Auto" mode that smartly chose the best approach.

Gantabya (OpenStreetMap)

[Github](#)

Nov 2024

- Developed a hyper-localized travel app for Nepali travelers.
- Integrated OpenStreetMap (OSM) for interactive trail mapping.
- Enabled users to add and share trails and checkpoints.
- Implemented real-time weather updates using third-party APIs (e.g., OpenWeatherMap).
- Contributed to backend API development and UI design enhancements.

CERTIFICATIONS

Postman API Fundamentals Student Expert – Postman (Oct 2024)

JavaScript Intermediate – Programiz (May 2025)

JavaScript Basics – Programiz (May 2025)

JavaScript for Beginners – Simplilearn (Oct 2024)

Recursion with JavaScript – Programiz (May 2025)

ACHIEVEMENTS

Best Project Award – Maze Generator (MERN, D3.js)

1st Place – Intra-College Coding Competition

Selected Fellow – WLIT Fellowship 2024/25

Contributor – GirlScript Summer of Code (GSSoC)

REFERENCES

Rachita Maharjan

Senior Software Engineer

Leapfrog Technology, Inc.

rachita.maharjan1@gmail.com

9863456868

Er. Mukunda Paudel

Head of Department

Department of Computer, IT & Software Engineering

Everest Engineering College

mukunda.paudel@eemc.edu.np

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