

Rajan Bhusal

✉ Email

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Summary

Graduate Student in Transportation Engineering, Interested in Network Optimization, Traffic Simulation, Discrete Choice Models and Reinforcement Learning.

Education

Master of Science in Civil Engineering 2025 – 2026

University of Hawai'i at Manoa, Honolulu, USA

Relevant Coursework: Machine Learning, Dynamic Prog. and Stoch. Control (Reinforcement Learning), Applied Random Processes, Mathematics for Economics, Advanced Transportation Modeling

Bachelor of Engineering in Civil Engineering 2018 – 2023

Tribhuvan University, Kathmandu, Nepal

Professional Experience

Graduate Research Assistant 2025 – 2026

University of Hawai'i at Manoa, Honolulu

- Developed a transportation network model for the island of Maui.
- Performed Literature Review, Data Analysis, Computer Simulation and Traffic Flow Visualization as per project needs.

Highway Site Engineer 2022 – 2023

Midhill Highway Project, Dailekh, Nepal

- Led a team of operators, drivers and supervisors in construction of flexible pavement, rigid pavement and other road structures.

Research Projects

Research Assistant 2025 – Present

Assessment of Cyberattack Impacts on EV Charging Stations

- Studied the impacts of cyberthreats on utilization of EV Charging Stations in Honolulu

Projects

Design of Gravity Water Supply System 2022 – 2023

Designed and Estimated a Community Water Supply Project in Kathmandu, Nepal as a part of Senior Design Project. Report is [here](#).

Skills

- **Languages:** Python, R, Javascript
- **Tools:** Git, Github, LaTeX, QGIS
- **Frameworks:** Pytorch, React, Django
- **Soft Skills:** Problem-Solving