

# Rajan Bhusal

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in [LinkedIn](#)

🌐 [Website](#)

## Summary

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

## Education

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**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

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**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 Experience

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**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

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**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

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

## Additional Experience and Certifications

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- **Software Engineering Job Simulation:** JP Morgan Chase and Co.
- **Machine Learning Specialization:** Coursera and DeepLearning.ai
- **Frontend Professional Developer Certification:** Meta

*Last Updated On August 1, 2025*