



Rojan Dahal

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Gender: Male **Date of birth:** 06/11/2001 **Place of birth:** Biratnagar, Nepal **Nationality:** Nepalese

ABOUT MYSELF

I am particularly interested in the application of Software Engineering in combination with Machine Learning principles to solve real-world problems. My current focus lies at the intersection of AI and Software Engineering, exploring how these technologies can be leveraged to create intelligent and efficient solutions. I am also interested in researching the potential of AI to the achievement of Sustainable Development Goals, particularly in the areas such as climate actions to support environment sustainability, health and education.

EDUCATION & TRAINING

[08/2018 - 09/2023]

Computer Engineering

Nepal Engineering College, Pokhara University <https://nec.edu.np/>

City: Changunarayan Municipality | **Country:** Nepal | **Final grade:** 3.70

[01/2016 - 04/2018]

Higher Secondary School

Kantipur Higher Secondary School

City: Biratnagar | **Country:** Nepal | **Final grade:** 3.54

WORK EXPERIENCE

RPA Nepal

City: Kathmandu | **Country:** Nepal

[13/08/2024 - 16/11/2025]

Software engineer

- Architected and developed scalable, high-performance web applications with a strong emphasis on security, maintainability, and efficiency.
- Designed and implemented complex system architectures, ensuring seamless integration of front-end and back-end technologies.
- Developed and implemented advanced matrix manipulation techniques to use in dynamic and interactive UI components, enhancing data visualization and user interaction.

Business Management Services Pvt. Ltd

City: Kathmandu | **Country:** Nepal

[08/2023 - 07/2024]

Web engineer

- Built and optimized scalable, high-performance web applications with a focus on clean code and best development practices
- Integrated APIs and third-party services to extend functionality and improve the overall user experience.

- Utilized front-end frameworks like ReactJS and back-end technologies such as NodeJS and FastifyJS to create full-stack applications.
- Conducted performance optimization, SEO enhancements, and accessibility improvements for better reach and usability.

Optimum Futurist

City: Kathmandu | **Country:** Nepal

[04/2023 - 05/2023]

Software Engineer Intern

- Gained hands on experience in coding practices and industry-standard software development
- Developed proficiency in ReactJS, Nodejs core concepts and created web applications
- Acquired expertise in FastifyJS framework, PostgreSQL, Sequelize, designing and developing multiple RESTful APIs
- Designed and implemented an algorithm to calculate user popularity on the platform by analyzing key engagement metrics

LANGUAGE SKILLS

Mother tongue(s): Nepali

Other language(s): English

SKILLS

communication | tools for software configuration management | implement front-end website design | analyse software specifications | Python (computer programming) | PostgreSQL | web programming | JavaScript | engineering processes | SQL | develop software prototype | web based collaborative platforms

HONOURS AND AWARDS

Undergraduate Full Scholarship **Awarding institution:** Pokhara University

Awarded based on competitive entrance examination performance, ranked among the top 10% of students.