

# Aditya Karki

Kathmandu, Nepal



[adityakarki728@gmail.com](mailto:adityakarki728@gmail.com)



[linkedin.com/in/aditya-karki-2977821ab](https://www.linkedin.com/in/aditya-karki-2977821ab)

## EDUCATION

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**St. Xavier's College Loyola Campus**, Maitighar, Kathmandu 44600

A-Level, Pure Science Jun 2018 - Aug 2020

Full Advanced Level degree in Physics (A\*), Mathematics (A\*), Chemistry (A), Further Mathematics (A), and Computer Science (A\*)

## SKILLS

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Python, Javascript, CSS, HTML-5, VB.net, Java, Statistical Data Analysis, Problem Solving, Leadership

## EXPERIENCES

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**Web Designer/Developer**, Neema Academy, Pipal Bot, Mahakavi Marg, Kathmandu 44600

May 2021 - Present

- Worked with the front-end web development team and improved the visual quality of content
- Proof read and suggested improvements to written web-content related to secondary-level Mathematics

**Project Head and Senior Content Creator**, BloomED, Kathmandu 44600

Jan 2021 - Present

- Trained interns in a computing environment including MS suite, LaTeX, and Python
- Prepared high-school level online-courses based on Nepal curriculum, which covers Mathematics, Computer Science, Optional Mathematics, and Science
- Hosted Bi-weekly webinars with guests from colleges like Cornell, NYU, MIT, Colby, Smiths, and Penn State
- Built starter level Olympiad preparation courses working in the Competitive Mathematics project

**Founder and President**, Math World Nepal, Kathmandu 44600

Dec 2020 - Present

- Collected 37 students from all over Nepal who are passionate about Mathematics, Coding, Graphics Design, and Public Relations
- Built six intellectual teams: Research, Content, Public Relations, Graphics, Technical, and Board
- Reviewed all the final contents of the content team
- Designed the Math World's website
- Conducted educational webinars from Olympiad finalists, university students, and professors
- Prepared Math animations using Manim library
- Tutored at Bloom Nepal School under the rural-tutoring venture of Math World Nepal

## CERTIFICATIONS

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**Data Science Math Skills by Duke University**, Coursera, Issued Dec 2021

<https://www.coursera.org/account/accomplishments/certificate/2DTG5JW8V6V4>

**Learn JavaScript: Full-Stack from Scratch**, Udemy, Issued Sep 2021

<https://www.udemy.com/certificate/UC-0ed78b88-852d-40d8-a97b-4cb8836a22ab/>

**Machine Learning by Stanford University**, Coursera, Issued Sep 2021

<https://www.coursera.org/account/accomplishments/certificate/F47NKM5HBSAF>

## AWARDS

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**International Youth Math Challenge 2019 (Gold Honor)**, December 2019

The honor was awarded for all finalists who scored within top-10% internationally

**4<sup>th</sup> National Physics-Math Olympiad (Creative Solution and Runner Up)**, February 2020

The competition was held as part of MechTrix 2020: 11<sup>th</sup> National Mechanical Engineering Expo

**National Olympiad in Informatics (4<sup>th</sup> position)**, August 2020

The competition held as part of Nepalese team selection for the International Olympiad in Informatics

**1<sup>st</sup> Rato Bangala Math League (Runner Up)**, August 2019

It was a national level Math competition where questions followed syllabus of International Math Olympiad

**6<sup>th</sup> SXC Mini-Marathon (Runner Up)**, December 2019

In this regional-level event, I ran a personal best of 43 minutes and 22 seconds for the 11.1 km distance

## ADDITIONAL

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### Language competencies

Nepali (native), English (fluent), Hindi

### Projects

**UJane:** A voice assistant powered by Machine Learning that helps students navigate their best-fit by giving information about American universities on the basis of various attributes like rankings, student-life, academics, and safety. <https://github.com/KarkiAdit/UJane.git>

**ChatAK:** A chatbot powered by Machine Learning that helps users understand Aditya Karki (me) as a person by answering their personal questions. <https://github.com/KarkiAdit/ChatAK.git>

**AlgoTutor:** A desktop application that teaches implementation of standard algorithms of data structures like Stack, Queue, and Linked List. <https://github.com/KarkiAdit/AlgoTutor.git>

### Hobbies and interests

Vlogging, Video Editing, Travelling, Dancing, Running, Cricket, Environmental Advocacy, Free Writing, Coding