# Manish Acharya

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## EDUCATION

- **St. Xavier's College** — Maitighar, Kathmandu
  *High School; GPA: 3.85/4.0* — *July 2019 - December 2021*
  **Courses:** *Physics, Mathematics, Chemistry, English, Nepali, Biology*

## SKILLS SUMMARY

- **Languages:**  Java, C, C++, Python, JavaScript, Dart
- **Frameworks:**  Spring, Flutter, Django, React
- **Tools/Platforms:**  GIT, PostgreSQL, MySQL, Linux, Web, Windows, Arduino, Android, IOS
- **Soft Skills:**  Leadership, Teamwork, Time Management, Communication, Problem-solving, Event Management

## EXPERIENCE

- **Software Developer** — Physical
  *Digital Nepal (Full-time)* — *December 2021 - July 2022*
  - **School Management System**: Worked in a team of 3 Software Developers and 2 designers to build a School Management System with an idea to digitize the educational ecosystem of Nepal.
  - **Mobile Application**: Engineered and maintained major features of the Digital Nepal mobile Apps.
  - **Canteen Management System**: Engineered and lead the solo project (Canteen Management System). The software which now is adopted by 150+ schools/colleges.
  - **Assistance**: Assisted Junior Developers and Interns to design the Examination Management Module.
- **Web Developer** — Remote/Physical
  *Mokshya Tech. and IT Solutions (Part-time, Contractual)* — *July 2020 - August 2021*
  - **Internship**: Worked as an intern for first 4 months under different projects and learned new tools/technologies. Later on promoted an an Employee.
  - **Digital GITA**: Assisted in developing EATGITA website: the online version of the religious book GITA. The website aimed on providing lessons and teachings of GITA through interactive ways.
  - **Staff Management System**: Led a team of 5 web developers to build a complete Staff Management System.

## PROJECTS

- **RajGyan**: Developed a mobile application which provides a safe space to share the problems and information related to menstruation. The app aims on fighting the stereotypes regarding menstruation in Nepal. Tech: Flutter.(Feb - May '22)
- **Gurzu**: Invited as a part-time Associate Developer at Gurzu to work under the software capable of detecting the tumors, skin lesions, and other unwanted growths inside the body based on medical reports, X-Rays, and MRI. (August - Present)
- **MySnake**: Built a mobile app to provide information about types of snake found in Nepal along with features such as Report Snake Bite, Report Snake, and Report Poaching. The app hopes to aid the snake bite management along with the preservation of snakes. Tech: Flutter, Dart, Firebase. (presented at MIT Appathon 2022)
- **Path Pradashak**: Built a website to provide information about the bus routes, fare, and vehicle available on any given location within Kathmandu, Nepal. The app tries to solve problems and provide valid information regarding public transportation in Nepal. Tech: HTML, CSS, JavaScript, NodeJs (March - June '22)
- **Periodic Table**: Built a periodic table web application listing all the available elements in the universe with their detailed description. Tech: Python, Django, PostgreSQL, and JavaScript. (June '20)
- **Resistance Calculator**: Built a Resistance Calculator app using Java. The project was initiated with an idea to simulate and help students understand the calculation of resistance in any resistor during my high school. Tech: Java (August '20)

## PUBLICATIONS

- **Detection of Breathing Rate Using Unmodified Smartphones**: Writing Research Paper and Developing mobile app to estimate the efficient way to calculate breathing rate using mobile phones at Incubate Nepal - a research program organized by MIT and Harvard Graduates. (July - Present)

## HONORS AND AWARDS

- Second Place MIT Appathon 2022 - Public Choice Adult Individual
- Nomination for Genius Olympiad, USA - 2018
- Winner of National Informatics Olympiad - May, 2022
- Winner of Website Development Competition - November, 2019
- Student of the Year - 2019/20

## VOLUNTEER EXPERIENCE

- **Country Ambassador for Nepal at STEM Global Network** — New York, USA
  *Surveying & researching status of STEM in Nepal and other underdeveloped countries.* — *Jun 2022 - Present*
- **Founder at RajGyan** — Kathmandu, Nepal
  *Organizing sessions & workshops related to menstrual hygiene. Advocating for PINK TAX.* — *Jan 2022 - Present*
- **Olympiad Mentor and Assistant at STEM Foundation Nepal** — Kathmandu, Nepal
  *Assisted in conducting National selection for Intl. Olympiads & mentoring the participants.* — *Class Breaks*
- **President at Computer Club** — Kathmandu, Nepal
  *Conducted National Tech. events and organized different teaching/learning workshops.* — *July 2019 - Oct 2021*