

Personal Details :

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Profile :

B.Tech first-year student with a strong foundation in Python, Full-Stack Development, Flutter, and Android development. Passionate about building efficient software applications and learning modern technologies. Interested in developing practical solutions and continuously improving programming and problem-solving skills.

Academic Qualifications:

S.N	Institution / Organization	Course	Year	C.GPA
1.	SRM Institute of Science and Technology, Tiruchirapalli - India	B.Tech CSE(Core)	2025(august)-present	-
2.	Gyanodaya Secondary School, Kathmandu -Nepal	High school, NEB +2 PCBM	2023-2025(July)	2.94/4.0
3.	New Horizon Academy, Kathmandu - Nepal	SEE-10th	2022	3.15/4.0

Projects :

Offline Dictionary Mobile Application (Flutter)

- Developed a cross-platform offline dictionary mobile application using Flutter, enabling users to search word meanings without internet connectivity.
- Integrated a local dictionary dataset with fast search functionality, providing instant word lookup and improving performance and features such as autocomplete suggestions, favorites, and search history to enhance user experience and usability

DNA Sequence Analyzer – Responsive Web Application

- Developed a responsive web-based DNA sequence analyzer using HTML, CSS, and JavaScript to process and analyze nucleotide sequences.

- Implemented features to calculate nucleotide frequency and GC content from user-input DNA sequences.
- Designed a mobile-friendly responsive interface ensuring seamless usability across desktops, tablets, and smartphones.

Library Management System (C++) | OOP | Console Application

- Developed a console-based Library Management System using C++ and Object-Oriented Programming concepts such as classes, encapsulation, and file handling to manage books and user records.
- Implemented core functionalities including book issue/return, add/remove books, and search operations, ensuring efficient data management.
- Designed a menu-driven interface with modular functions, improving code maintainability and demonstrating practical application of OOP principles.

Experience :

- Completed a Software Engineering Job Simulation with JPMorgan Chase on Forage, where I built a transaction-processing microservice using Spring Boot and Apache Kafka.
- Developed several academic and personal projects, including web and system-based applications using HTML, CSS, JavaScript, Python, Flask, flutter and C++.
- Participated in technical workshops such as Drone Development Workshop by Air Vulture Aerospace, Ethical Hacking workshop by vault of codes gaining hands-on exposure to new technologies.
- Completed Microsoft Azure Fundamentals training through Simplilearn, gaining basic knowledge of cloud computing concepts and Azure services.
- Learned the fundamentals of AI technologies through training programs offered by IndiaAI.

Achievement / Certificates:

Microsoft Azure Fundamentals | Microsoft via Simplilearn | 18th March 2026

- Learned core Azure services including Virtual Machines, Azure Storage, and Azure Networking.
- Developed understanding of Azure security, identity management using Azure Active Directory, and compliance principles.
- Explored Azure pricing models, cost management, and resource deployment using the Azure portal.
- Gained exposure to cloud architecture principles and best practices for scalable and reliable cloud solutions.

Introduction to Cloud Computing | Simplilearn | 16th march 2026

- Completed Introduction to Cloud Computing training, gaining foundational knowledge of cloud architecture and distributed computing concepts.
- Explored core cloud deployment models including public, private, and hybrid cloud environments and key cloud services model (IaaS, PaaS, SaaS) with their application.
- Developed understanding of scalability, elasticity, virtualization, and cost efficiency in cloud platforms with exposure to major cloud platforms such as Microsoft Azure, Amazon Web Services, and Google Cloud Platform.

Drone Workshop | Air Vulture Aerospace | 15th March 2026

- Completed a 3-day hands-on drone workshop, gaining practical knowledge of UAV components, design principles, drone system architecture and real-world drone development practices.
- Learned thrust-to-weight ratio calculations, motor selection, and ESC rating matching for optimal drone performance.
- Understood the fundamentals of drone building workflow, integrating motors, ESCs, controllers, and frame components.

JPMorgan Chase Software Engineering Job Simulation | Forage | 12th March 2026

- Built a Spring Boot microservice that uses Apache Kafka to receive and process large volumes of transaction messages.
- Implemented transaction validation and stored data using Spring Data JPA with an H2 Database, including updating user balances.
- Connected the service to an external incentive API using RestTemplate and included the incentive response in transaction processing.
- Created REST APIs to check user balances and tested the system using Apache Maven to ensure everything works correctly.

Curve Fitting Onramp | MathWork (MATLAB) | 14th March 2026

- Completed Curve Fitting Onramp, learning to analyze datasets and create mathematical models using MATLAB's curve fitting tools.
- Applied data visualization and regression techniques to fit curves, evaluate model accuracy, and interpret data trends.

Yuva AI for All | IndiaAI(AISECT) | 2nd March 2026

- Completed Yuva AI for All, gaining foundational knowledge of AI concepts and real-world applications

- Learned basics of machine learning, data-driven decision making, and AI technologies.
- Explored ethical AI practices and the impact of AI across sectors such as healthcare, education, and smart systems.

C Programming 100 problem solving challenge | Directorate of Learning & Development – SRMIST | 22nd November 2025

- Complete 50 hr of intensive programming practise as part of SRMIST-IEEE and PURDUE EPICS program by solving 100 problems using C language.

Key skills:

- Programming Languages : C, C++, Python, JavaScript, Swift
- Frameworks & Technologies: HTML, CSS, React, Flutter
- Databases : MongoDB, MySQL, Firebase
- Tools & Platforms : Android Studio, MATLAB
- Software : Microsoft Office Suite
- Soft Skills : Teamwork, Adaptability
- Languages : English, Nepali, Hindi (Conversational), Bhojpuri

Hobbies and Interests :

- Participating in Hackathons and coding competitions.
- Learning Programming concepts and building mini projects
- Exploring Emerging technologies.
- Sleeping and Watching Series

Reference :

- Available upon request
