

# Arnav Sharma

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## EDUCATION

### College of Applied Business & Technology

B.S. in Computer Science and Information Technology  
Tribhuvan University

Chabahil, Kathmandu

Expected Graduation, December 2024

- **Concentrations:** Computer Science
- **Related Coursework:** Data Structures & Algorithms, Cryptography, Computer Architecture, Design & Analysis of Algorithms, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

## EXPERIENCE

### CAB-Tech

Software Development and Digital Marketing

Chabahil, Kathmandu

May 2023 – Present

- Developed and implemented strategies to increase brand awareness and engagement
- Built learning modules for a Learning Management System using Laravel
- Established a learning lab for exploring CI/CD using Jenkins, Docker, and Ansible

## PROJECTS

### Chess Engine

Baluwatar, Kathmandu

- Built a versatile chess engine offering various gameplay modes
- Crafted a chess engine in Python, utilizing Pygame for the user interface and implementing the Negamax algorithm with Alpha-Beta Pruning for AI decision-making

### Robo-Soccer Bots

Chabahil, Kathmandu

- Created a Robo-Soccer bots using Arduino-Uno and Monster-Moto Driver
- Implemented bots' control by setting up control with both a Bluetooth device and Flysky

### Snake AI

Baluwatar, Kathmandu

- Trained an AI Snake player (Python, Pygame) to master the game through reinforcement learning
- Implemented a Python reinforcement learning snake agent for autonomous gameplay improvement

### Movie Recommender

Chabahil, Kathmandu

- Designed an intuitive user interface for a movie recommendation system
- Implemented a content-based movie recommender using scikit-learn's CountVectorizer and cosine similarity to analyze movie tag similarity

## ACTIVITIES AND LEADERSHIP

### College of Applied Business and Technology

Member of Student Welfare and Counselling

Chabahil, Kathmandu

Mar 2022 – Jan 2024

### TechTriX 2023

Participated in Hackathon

Tinkune, Kathmandu

Sep 2023

### Hex-Himalaya Hackathon

Participated in Robo-Soccer Event

Chyasaal, Lalitpur

Jul 2023

## PROGRAMMING SKILLS

**Fluent:** Python, JavaScript, HTML/CSS, SQL, C++, C, C#, PHP

**Familiar:** Linux (CentOS), Canva, Figma, Arduino

**Tools:** IntelliJ, PyCharm, Visual Studio, Jupyter Notebooks, Git, Bootstrap, Agile, Trello, Jira, Slack, Notion

**Frameworks:** Django, Laravel, .NET, Flask, Streamlit