

Yunik Thapaliya

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EDUCATION

The University of Texas at Arlington, Arlington, TX
Bachelor of Science in Computer Science

Expected May 2028
GPA: 3.78 / 4.00

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, HTML, CSS

Frameworks & Libraries: Django, Node.js, Streamlit, Java Swing, Scikit-learn, TensorFlow, Pandas, OpenCV

Tools: Git, GitHub, pytest, VS Code

Mathematics: Calculus, Linear Algebra, Statistics

PROJECTS

Syllabus Merger | Python

- Built a Python tool that takes syllabi from multiple courses and merges them into a single, unified syllabus, putting every course's schedule and deadlines in one place.

Blood Management System | Java, Swing | GitHub

- Developed a Java Swing desktop application in a 4-person team to manage donors, hospitals, and blood availability.
- Built role-based login flows for users, hospitals, and administrators, and a blood-type compatibility checker that identifies eligible donors and recipients.
- Implemented file-based persistence for saving and loading user and hospital records.

Game Glitch Investigator | Python, Streamlit, pytest | GitHub

- Diagnosed and fixed bugs in an AI-generated Streamlit game, including a session-state bug that reset the secret number on every submit and inverted hints caused by string-vs-integer comparison.
- Corrected scoring and difficulty logic, refactored game logic into a separate module, and verified fixes with pytest.

Weather Forecasting API | Django, JavaScript

May 2024 – Present

- Developing a weather forecasting API with Django and JavaScript, experimenting with basic machine-learning techniques to improve prediction accuracy.

EXPERIENCE & LEADERSHIP

Computer Vision Research Bootcamp, Participant
Chitwan, Nepal

Oct 2023 – Dec 2023

- Gained foundational knowledge of core computer vision techniques and collaborated with experts on real-world applications of visual data analysis.

STEM Club, Vice-President

May 2022 – Aug 2023

New Capital Secondary School, Chitwan, Nepal

- Represented the school at 2 STEM camps, collaborating with peers and mentors on hands-on projects.
- Organized inter-college quizzes, science exhibitions, and AI-focused workshops to increase student engagement.

CONTINUED LEARNING

Introduction to Machine Learning with Python (edX): supervised and unsupervised learning, model evaluation, Scikit-learn

Nov 2024 – Present

Large Language Models (self-study): transformer architectures and text generation

Aug 2024 – Present

AI/ML Workshop: core algorithms, model evaluation, and real-world applications

Jan 2024 – Feb 2024

HONORS & AWARDS

Runner-Up, District-Level Mathematics Olympiad: out of 500+ competitors; honored by the local mayor

May 2023