Dipendra Pandey

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EDUCATION

Tennessee State University, Nashville, Tennessee — Expected Graduation: May 2027

B.S. in Computer Science — CGPA: 4.0

Relevant courses: Computer Programming I & II, Computer Organization, Data Communication and Computer Network, Discrete Mathematical Structures, Calculus I, Principles of Economics I, College Writing, Communication Skills

TECHNICAL SKILLS

Python, HTML, CSS, SASS, TypeScript, JavaScript, React, Flask, Java, C++, Git, VS Code, Jupyter Notebook, SQL, Tableau

TECHNICAL PROJECTS

Plant Disease Detection

- Achieved 97% accuracy in detecting plant leaf diseases by developing and deploying machine-learning models using the PlantVillage dataset.
- Preprocessed over 1,600 images through color space transformations (RGB to HSV), image segmentation, and feature scaling to enhance data quality.
- Integrated transfer learning using ResNet50 and VGG16 models to enhance classification performance; designed the system to assist farmers and researchers in identifying plant diseases efficiently.

College Search Guide

- Built a responsive **React** website using **HTML**, **CSS**, and **JavaScript** to assist international students with their U.S. university search. Leveraged **React** components for dynamic user interactions, helping 13 students from Nepal secure full-ride scholarships.

Hangman

- Developed a **Python**-based Hangman game in which the user guesses a randomly selected word. Utilized core programming concepts like user input validation and control flow.

Python RPG Game

- Developed a turn-based RPG game in Python featuring randomized combat, inventory management, an armor system, sound effects, and visual elements. Implemented automated simulations to analyze win rates using OOP principles.

WORK EXPERIENCES

Inroads, *Data Visualizer and Web Developer, Atlanta* — Aug 2024 – Dec 2024

Justice40 Accelerator, Partnership for Southern Equity

- Updating the entire website of Justice40 Accelerator using HTML, SASS, and ReactJS to make it more dynamic and user-friendly
- Creating interactive figures that can be zoomed, updated, and styled using Matplotlib with an object-oriented API to help the Justice40 organization visualize from where they are receiving the funding opportunities and in which part of the United States the funds are being utilized

Caldwell University, Caldwell, NJ

IT Support Assistant — Jan 2024 – May 2024

- Provided technical support for 50+ faculty and staff members, troubleshooting and resolving hardware/software issues, ensuring seamless operation of classroom technology.
- Managed maintenance and configuration of 20+ computer labs, performing system updates and managing network infrastructure to ensure 99% uptime and optimal performance.

Moonlight Secondary English School

Computer Science Tutor — Jan 2022 – Nov 2022

- Taught HTML, CSS, and QBASIC to 75+ students, updating the curriculum and teaching methods, resulting in 90% of students achieving A's—30% higher than the previous year's average.

ACTIVITIES

Secretary, Caldwell University CS Club — Feb 2024 – Dec 2024

- Maintained detailed records of 20+ club meetings, events, and decisions, ensuring clear communication and continuity across leadership transitions.
- Coordinated 10+ technical workshops and networking events, increasing club membership by 25% and fostering collaboration within the CS community.

HONORS & AWARDS

- Brilliant Black Mind Award — Jan 2024 – Present
- St. Thomas Aquinas Scholarship, Caldwell University — Jan 2024 – Dec 2024
- ITAG Scholarship, Tennessee State University — Jan 2025 – Present