

Nandini Pal

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EDUCATION

Texas A&M University

BS in Computer Science, Minors in Mathematics and Statistics

August 2022 – May 2026

College Station, TX

- Current GPA: 3.72/4.00, Dean's Honors List
- Craig and Galen Brown Honors Engineering Program, National Merit and President's Endowed Scholarship
- Organizations: Delta Kappa Delta Sorority (Officer), Aggie Women in Computer Science, Aggie Data Science Club

EXPERIENCE

Data Science Research Assistant

Urban Resilience AI Lab

June 2024 – Present

College Station, TX

- Using data analytics and machine learning methods to protect communities against natural disasters
- Utilized Pandas and python scripts to clean, standardize and merge datasets of 3000+ counties
- Deployed interactive web-based map from multiple data sources using Folium and GeoPandas

Software Engineering Intern

Cuvasol Technologies Private Limited

June 2024 – Present

Remote

- Developed an AI-powered application to automate the generation of non-technical interview questions
- Created UI element with React to upload PDF document to SQLite database for resume submission
- Utilized OpenAI API and PyTorch generate questions with Retrieval-Augmented Generation (RAG)

Engineering Peer Teacher

Texas A&M University

Aug. 2023 – Present

College Station, TX

- Instruct as a teaching assistant for multiple introductory Python classes of 100 freshmen
- Host office hours and answer questions on the engineering chat platform with 3000+ students
- Provide feedback on programming assignments, quizzes and exams with accuracy and efficiency

PROJECTS

Pantry Tracker | *Personal Project: Next.js, React, Firebase, OpenAI API*

July 2024

- Developed pantry inventory tracker, with real-time updates and a user-friendly interface
- Utilized Firebase database to allow adding, removing and updating pantry items
- Integrated OpenAI API to recommend recipes based on available pantry contents

Reveille Rides | *Organization Project: React, Node.js*

Sept. 2023 – Dec. 2023

- Collaborated with other coding club group members to create a student busing app
- Helped to plan and design user interface and app logistics
- Worked on front-end team to implement specific features for user interface

Personalized Skincare Website | *Personal Project: Javascript, HTML, CSS*

Dec 2023

- Created a website that generates a customized skincare routine
- Used HTML and CSS to create UI allowing users to input skin information
- Deployed and hosted website using Github Pages

Spotify Data Dashboard | *Personal Project: Python, Flask, Javascript, JQuery*

July 2023

- Created a web app that provides a personalized music data dashboard using Spotify API
- Implemented Spotify OAuth in order to display user's top listened to tracks and artists
- Created user interface allowing users to select desired timeframe for data

SKILLS

Languages: C++, Python, Java, Javascript, HTML and CSS, SQL

Developer Tools: Git and GitHub, Linux, MS Office, VS Code, PyCharm, Jupyter Notebook, AWS

Libraries: NumPy, Pandas, Matplotlib, OpenCV, PyTorch

Relevant Coursework: Data Structures and Algorithms, Principles of Data Science, Computer Systems, Discrete Math, Program Design and Concepts, Computer Organization, Programming Languages, Linear Algebra, Calculus 1-3, Statistics 1-2