Tapan Sidhwani

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Education

Vanderbilt University — Nashville, TN

B.S. Computer Science Major | Business Minor

Societies: Vanderbilt Business Review, Vanderbilt Blockchain, Kappa Theta Pi (Technology Fraternity)

Professional Experience

Deep Sync — Seattle, WA

Incoming Data Engineering Intern — May 2025

HITAI — Remote

Intern — April 2025 - Present

- Contributed to an computer vision action-recognition network in PyTorch that classifies strike categories with 85% validation accuracy
- Engineered a training dataset of 1,000+ annotated combat-sport frames, providing precise key-point labels for punch-and-kick detection models

Slave Societies Digital Archive — Nashville, TN

Machine Learning Engineer — August 2024 - Present

- Spearheaded the development and optimization of classifier machine learning models using OpenCV and SciKit-learn, improving image processing efficiency by 15%
- Trained models on over 100,000 historical images, improving text segmentation accuracy for extracted historical and handwritten data

VandyHacks Board — Nashville, TN

Sponsorship Committee — Feb 2024 - Present

- Directed sponsor events during hackathon, organizing career fair and judging contestants
- Initiated outreach to 20+ industry recruiters, raising $25,000 in sponsorships for Fall hackathon

Snowy Owl Global LLP — Remote

Data Analyst — July 2024 - October 2024

- Customized 5 school curriculums for teacher training programs ran by Snowy Owl at underprivileged schools across 5 cities elementary schools in mid-tier cities in India
- Integrated 10+ U.S. educational practices from top rated schools, using AI tools for research work

Children's Learning Center of Fairfield County — Stamford, CT

Information Technology Intern — May 2023 - July 2023

- Ensured complete data sanitization, wiping 30+ company computers with format algorithms
- Conducted battery and system performance diagnoses, facilitating device longevity

Project Experience

Flow Chart Study Tool — Sept 2024

- Designed and implemented a binary decision tree study tool using Python
- Boosted student engagement and learning time efficiency by 30% based on user feedback

Vanderbilt Blockchain — Aug 2024 - Present

- Research and analyze potential coins to contribute to $100,000 club investment fund
- Pitch at online and regional blockchain conferences through DormDAO competitions

Skills/Languages

Skills: Java, C++, HTML, CSS, Python, C,, Cursor, Microsoft Excel, Conversational Spanish and Hindi