

Varun Taneja

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EDUCATION

University of Notre Dame | Notre Dame, IN Graduation May 2025
Bachelor of Science GPA: 3.75

Major: Computer Engineering, Concentration: Cyber Security

WORK EXPERIENCE

University Of Notre Dame CSE Department | Notre Dame, USA January 2023 – Present
Logic Design Teaching Assistant

- Help students understand Boolean algebra, Assembly language, and Verilog concepts during office hours and studio sessions and assist Dr. Aaron Dingler with grading homework assignments and exams

University Of Notre Dame CSE Department | Notre Dame, USA July 2024 – August 2024
Research Assistant

- Worked with Professor Ye's lab on Multi-objective Personalized Health-aware Food Recommendation System with LLM-enhanced Interpretation project, with paper submitted to the KDD 2025 ADS Track
- Implemented predetermined baseline models such as NCGF and HAFR using Pytorch in Python

Partior | Singapore May 2024 – June 2024
Digital Intelligence Team Intern

- Completed Google Cloud Skills Boost - Introduction To Generative AI, to use Vertex AI for enterprise
- Generated realistic mock billing data with natural growth and ingested it into GCS for Looker Studio dashboards
- Conducted a comprehensive analysis of various prompting techniques, including Zero-shot and prompt-chaining to optimize business data retrieval methods
- Developed Python program to web scrape business data from PDF's using Google Gemini API and Google Vertex AI

Vena Energy | Singapore May 2022 – June 2022
Data Analytics and Programming Intern

- Worked on code migration from NodeJs to Python for Wind and Solar power plant SCADA Data.
- Created and implemented real-time Python program to update data on Google Firebase Server every minute
- Wrote Python script to store long-term BigQuery data on Google Cloud Platform

LEADERSHIP AND ACTIVITIES

Notre Dame Club Golf Team | Notre Dame, IN August 2022 – Present
Vice President

- Competed in regional NCCGA golf tournaments, including 3 consecutive bids for the National Championship.
- In charge of practices, tournament travel squads and overseeing all competitive aspects of the team

Notre Dame Club Boxing (Bengal Bouts) | Notre Dame, IN August 2022 – Present
Member

- Competed in an Amateur boxing tournament in February of 2023 and 2024.
- Fundraised six thousand US dollars over two years to fund the education of students at a school in Bangladesh.

RELATED COURSEWORK OR PROJECTS

Computer Security | University of Notre Dame August 2023 – December 2023

- Reversed engineered Windows XP Freecell using static and dynamic analysis in IDA Pro and OllyDbg to find the memory location of card states.
- Implemented Artificial Intelligence Search algorithms BFS, DFS, and A* search to find an optimal win strategy for the current game.
- Created a Python GUI using PyQt5 that guides the user through the best strategy

SKILLS AND INTERESTS

Technical: Advanced C/C++, Python, MATLAB, CSV, JSON, Verilog, Git, Github, MIPS, RISC-V | Advanced Apple Suite, Microsoft Office, Google Cloud Platform, Firebase, Cadence Virtuoso, Ollydbg, IDA Pro

Language: English (fluent), Hindi (conversational)

Interests: Golf, Cooking, Rock Music, Fitness, Boxing