

Varun Taneja

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EDUCATION

University of Notre Dame | Notre Dame, IN Graduation May 2025
Bachelor of Science GPA: 3.74

Major: Computer Engineering, Minor: Engineering Corporate Practice (Business)

WORK EXPERIENCE

University Of Notre Dame CSE Department | 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

Alcor Solutions Incorporated | Singapore (*Remote*) June 2023 – August 2023
AWS Cloud/Development Group Intern

- Reviewed AWS cloud application design documentation to ensure team was prepared for client meetings
- Responsible for writing coding standards in Python, Java, and Angular to guide the development team
- Identified and clarified any areas of confusion in both programming and design documentation

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

Singapore Armed Forces | Singapore October 2019 – July 2021
Guardroom In Charge and Service Role Trooper

- Conducted all guardroom operations in conjunction with Sergeant in charge, promoted to Corporal Rank
- Responsibilities included issuing of SAR21 assault rifles, issuing camp clearance, and schedule planning
- Facilitated vehicle access into the camp and conducted vehicle checks in accordance with military law

LEADERSHIP AND ACTIVITIES

Notre Dame Club Golf Team | Notre Dame, IN August 2022 – Present
Marketing and Merchandise Officer

- Competed in regional NCCGA golf tournaments, including 2 consecutive bids for the National Championship.
- In charge of marketing, merchandise design, and purchasing for the team

Alumni Hall GreeNDot | Notre Dame, IN August 2022 – Present
Co-Commissioner

- Facilitating dorm-wide participation in the Notre Dame GreeNDot scheme that raises awareness and teaches skills to recognize and prevent sexual violence and assault
- Working with student government to implement gender relations initiatives within residence hall

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

- Competed in an Amateur boxing tournament in February of 2023, currently preparing for the 2024 event.
- Raised over three thousand US dollars to fund the education of students at a school in Bangladesh.

RELATED COURSEWORK OR PROJECTS

Digital Integrated Circuits | University of Notre Dame August 2023 – December 2023

- Designed standard cells in 0.5u technology which met lambda design rules and passed DRC, LVS, and extraction tests using Cadence Virtuoso, Layout GXL, and Analog Place and Route, as well as synthesized a MIPS 8-bit microprocessor using Genus Synthesis Solution and Innovus Implementation System.
- Proposed, designed, and tested a linear feedback shift register in Verilog and synthesized the design using the eFabless digital chipIgnite flow in GF180nm technology, passing Multi-Project Wafer and Tapeout tests.

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

Language: English (fluent), Hindi (conversational)

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