Varun S. Jain

Citizenship: USA • Classification: Senior • LinkedIn • Website: https://vsjain2004.github.io/

PURPOSE

Seeking a Summer Internship in Computer Architecture or Related Fields, leveraging expertise in digital logic and HDL design to contribute to innovative solutions.

ACADEMICS

Degree: Pursuing B.Sc. in Computer Engineering with Honors at Iowa State University

Expected Graduation Date: May 2025

Current GPA: 4.00

Special Interests: Computer Architecture, Robotics, AI, HCI

TECHNICAL SKILLS

- **HDL:** VHDL, Verilog
- **Programming Languages:** Python, Java, MATLAB, C, C++
- **Web Development:** HTML, CSS, JavaScript, TypeScript
- **HarvardX CS50 Certifications: CS50X and CS50W**

EXPERIENCE

Teaching Assistant (Aug 2024 – Current)
Led lab sessions, assisted with coursework, and supported students' understanding of digital logic concepts.

UHPC India Pvt. Ltd. (Summer 2024)
Interning 'Software Developer' at UHPC India Pvt. Ltd. Developed Software solutions in Python.

InGen Dynamics (Summer 2023)
Interning 'Junior Software Engineer' at inGen Dynamics Inc. Developed backend for new AI applications.

Research Assistant (Aug 2022 – Dec 2023)
Researched the use of Artificial Intelligence in Animal Husbandry and Microfluidics.

Tej Control Systems (March 2021)
2-week shadow program on Robotics at Tej Control Systems Pvt. Ltd, Mumbai, India

ACADEMIC PROJECTS/LEADERSHIP ACTIVITIES

CPU Design (Fall 2023)
Designed three Reduced-Instruction MIPS processors in VHDL. The first was a Single Cycle Processor, while the others were Pipelined. Added Hazard Detection and Forwarding in the final one. Performed Timing Analysis using Intel Quartus Prime. The Final Processor has a 95.7% increase in Clock Frequency from the First Processor.

Treasurer (Aug 2023 – Current)
Treasurer for Student Organization 'Hindu Yuva' at the University.

F1 in Schools (2021-2022)
Marketing and Sponsorship Manager and Graphic Designer of my team to design F1 model cars. We won the **Resilience Award** in the **Nationals** in India.

City as a Lab (2021)
Involved in the 'City as a Lab' research project regarding the Indian National Air Quality Index

Community Level Project (2020)
Created an online search Directory for the Bisa Humad Jain Community in Mumbai, India

OTHER RELATED EXPERIENCES

MITx LaunchX's 'Becoming an Entrepreneur' online course - **2022**

Taught Math to 5th graders at my school - **2021**

Converted web-based financial data to Google Sheets for counselor - **2021**

AWARDS / SCHOLARSHIPS

Dennis and Marlys Thovson Scholarship (2024)

Early Achievement in International Studies (**2023**)

EXTRA-CURRICULAR INTERESTS

Creative writing and storytelling, competitive table tennis, and community service