

Himanshu Sachdeva

Updated February 24, 2022

Email: himanshu21256@iiitd.ac.in

Mobile: +91 99581 30513

Citizenship: India

GitHub: <https://github.com/lightninghimanshu>

LinkedIn: <https://www.linkedin.com/in/sachimanshu>

Research interests Human Computer Interaction; Usability Engineering; Privacy; Information Security;

Education **Indraprastha Institute of Information Technology** Delhi, India
B.Tech Computer Science Engineering 2021 – Present
Grade: 8.67/10

Experience and Projects **Summer Undergraduate Research Fellow** Jun. 2023 – Jul. 2023
Guide: Mr. Anmol Srivastva, Department of Human-Centered Design, IIIT Delhi

- Pioneered an orientation-based olfactory system for Temple Run, addressing the absence of olfaction in gaming.
- Utilized body tracking, computer vision, and hardware control to dynamically adjust fragrance release, enhancing immersion.
- Enabled users to control the game character's running direction based on physical orientation, increasing realism.
- Conducted experiments to evaluate feasibility, efficacy, and positive user reception.

Foundations of Computer Security (CSE345) Aug. 2023 – Dec. 2023
Guide: Arun Balaji Buduru, Department of Computer Science, IIIT Delhi

- Hosted a secure real estate aggregator system to facilitate secure property transactions and document verification.
- Implemented a variety of security features, including: Public key infrastructure (PKI) and One-time password (OTP) authentication to safeguard sensitive transactions.
- Secure transaction logging for external audits and payment gateway compliance and automated document verification
- Provided administrators with the tools to monitor user activity, detect suspicious activity, and moderate the platform

Teaching experience **TA, Discrete Mathematics** Aug, 2023 – Dec, 2023
Dr. Bapi Chatterjee, Indraprastha Institute of Information Technology
Assisted the professor in delivering lectures, proctoring examinations, and facilitating assignments.

Honors and Scholarships

Summer Research Fellowship. Grant INR 40000
Indraprastha Institute of Information Technology
nVent Scholarship Recipient. USD 2000 annually
Scholarship America for degree duration.

Sep, 2023

Aug, 2022

Skills

Programming:

Proficient in: JavaScript, C/C++,

Familiar with: Java, Python