Sanyam Jain

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Experience

HCI RESEARCH ASSISTANT, Insights Lab- Western University, CA   Sep 2023 – Present
- Conducted diverse user research for multiple HCI and info-visualization projects—employing interviews, usability testing, and data analysis to inform design concepts and prototypes
- Partnered with cross-functional teams to integrate user insights into iterative development cycles, advancing user experience outcomes in data-intensive environments

TEACHING ASSISTANT, Western University   Sep 2023 – Present

Analysis of Algorithms (CS 3340B) - Demonstrated how algorithmic complexity impacts user experience and performance

Multimedia & Communications (1033A) - Advised on interactive media design and usability

Human-Computer Interaction (4474B) & Integrated Science (1001X) - Mentored students in usability testing, heuristic evaluations to elevate final design outcomes and design principles

Multimedia & Communications 2 (2033A) - Guided interactive media design and refined usability strategies

DATA & PRODUCT EXPERIENCE INTERN, Elite Techno Groups   Jul 2021 – Sep 2021
- Developed a JSON-based inventory system (increasing retrieval speed by 30%), leveraged Matplotlib/Pandas/NumPy for bottleneck discovery, and refined UI elements in sync with developer feedback

SOFTWARE DEVELOPER INTERN, S.S.TECH   April 2022 – Sep 2022
- Engineered a web and Android app (boosting checkout efficiency by 20%), enhanced communication devices with user-centric updates, and streamlined milestones through open design dialogues

AAI INTERN, Airports Authority of India   Aug 2022 – Sep 2022
- Explored AI-driven AMSS for real-time air traffic, gaining cross-functional insight into mission-critical protocols

Key Projects

Adverse Event Reporting Interactive Visualization - Developed a single-page, interactive OpenFDA-based interface applying HCI principles, significantly enhancing data presentation and user clarity

Ayurvedic Solutions for All Diseases - Created a real-time web recommendation system (PHP/SQL) with Logistic Regression for personalized health advice

Public News App - Built an (OpenCV/SQL) app for fast location-based news, refining UI and queries for a smoother experience

Android Controlled Night Vision Camera - Developed an App for 24/7 remote surveillance, emphasizing stable connectivity, an intuitive interface, and real-time control

Publications

ENVISION OpenFDA Adverse Drug Events Database Exploratory Interactive Visualization	2025
Time-Varying Frequency Estimation of Narrow Band Signals	ISBN No: 978-81-954164-4-8	2023
Semantic Parser Using a Sequence-to-Sequence RNN Model to Generate Logical Forms 10.1007/978-981-19-8563-8_27	2023
Establishing Communication Between Neural Network Models 10.1007/978-981-19-8563-8	2023
Design and Development of a Solar-Based Wireless Electric Vehicle Charging System 10.1007/978-981-99-6749-0_32	2024

Technical Skills

Languages & Frameworks: Python, Java, C++, SQL, HTML/CSS, JavaScript, Bootstrap, MATLAB
Software & Libraries: D3.js, Figma, Git, Android Studio, Matplotlib, Underscore.js, Pandas, NumPy, Sklearn
Collaboration & Approach: Agile/Scrum, Iterative Development, Hypothesis-Led Planning, Wireframing, Prototyping

Leadership & Volunteering

Vice-President	Computer Society of India, MAIT	2022
Social Volunteer	Rotaract Club of Rohini	2021

Certifications

Human-Computer Interaction	Western University	2024
Google Data Analytics	Google	2024
Machine Learning & Deep Learning	U demy	2023
Java Level 1 & 2	Cambridge Certification Authority	2023
Microsoft Technology Associate	Microsoft	2024

Education

University of Western Ontario, Masters in Computer Science (Thesis in HCI) 3.7 GPA	2023 – 2025
Guru Gobind Singh Indraprastha University, B.Tech in EEE 3.6 GPA	2019 – 2023