

Adarsh Mishra

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Highlight

Accomplished Software Engineer with expertise in the MERN stack, recognized for exceptional problem-solving abilities and a proven track record of creating innovative UI features, leading teams, and delivering impactful projects.

Education

Guru Nanak Dev Engineering College, Ludhiana (GNDEC)

Expected graduation date: Jun. 2025

B.Tech in Electronics and Communication Engineering |

CGPA: 8.23

Relevant Courses: Electronics Devices, Digital Electronics, Digital Signal Processor, OOP (C++), Microcontroller and Microprocessor, Computer Networks, Computer Architecture, Network analysis and Synthesis, Signal System

Experience

Nano-bios Lab - IIT Bombay

Mar. 2024 - Present

Software Developer Intern

React, Django, Flask, Machine Learning

- Developed a Django application enabling chat functionality with YouTube videos, including chatbot integration.
- Worked on machine learning projects, contributing to various healthcare applications and improving model efficiencies up to 97%.

Semi-Conductor Laboratory (formerly DOS, ISRO)

Jul. 2023 - Aug. 2023

Project Trainee

VLSI

- Gained hands-on experience in 180nm fabrication processes.
- Utilized CV Plotter Metrology to analyze MOS capacitors, enhancing understanding of semiconductor behavior.

Projects

Video-Analyzer

March 2024 - April 2024

Tools for Various Purposes

Python, React, Django, Tailwind CSS, Git

- Developed a tool to fetch YouTube video transcripts using the YouTubeTranscriptApi library.
- Implemented a chatbot that generates responses to user queries based on video transcripts.
- Integrated Google's Generative AI model (GenAI) for enhanced response generation.

FitTrack

Feb. 2024 - March 2024

Empowering Your Journey to Wellness

Python, HTML, Flask, Tailwind CSS, Git, Vercel

- Created a comprehensive health and fitness tracker app using Python, Flask, HTML, and Tailwind CSS.
- Integrated social sharing features and personalized wellness recommendations.
- Securely deployed the app on Vercel, ensuring easy access and continuous updates.

Assignment Feedback System

Jan. 2024 - May 2024

Digitize, Detect, Excel

Python, Flask, Tailwind CSS, Git

- Developed an application using Flask for managing student assignments, providing feedback, and facilitating communication between students and teachers.
- Reduced teachers' workload by 60% through automation and streamlined processes.
- Enhanced student-teacher interaction and feedback efficiency.

Skills

Languages: C, C++, Python, JavaScript

Technologies:

- **Web Development:** React, Node.js, ExpressJS, Django, Flask, Tailwind CSS, Material UI
- **Machine Learning:** Pandas, Numpy, Scikit-Learn, Matplotlib
- **VLSI Design:** Cadence Virtuoso, VHDL, Verilog, VLSI Programming

Tools: Git, GitHub, Docker, PostgreSQL, MongoDB, GitLab

Conferences

9th NCEEIT

Feb. 2024

GCET Jammu

- Presented a paper on "The Effect of Data Privacy Laws on Cloud Computing in Commerce".
- Highlighted institutional limitations and legal ambiguities confronting cloud computing providers due to varied data privacy regulations across different jurisdictions.
- Proposed solutions for policy makers, practitioners, and researchers to resolve data privacy issues in cloud computing, promoting a sustainable, safe, and ethical digital economy.
- Presented statistical data showing that 65% of businesses are hesitant to adopt cloud solutions due to data privacy concerns, and 45% of cloud providers face compliance challenges with international data protection laws.

NCIESA-2024

Feb. 2024

National Institute of Technology Kurukshetra

- Presented research on "Breakthrough Trends of Nanotechnology in the Biomedical Industry".
- Evaluated ethical considerations and potential risks associated with nanotechnology in medicine.
- Proposed future research directions to ensure the safe and effective use of nanotechnology in healthcare.
- Contributed to collaborative discussions on the interdisciplinary applications of nanotechnology in biomedical engineering.

Achievements and Responsibilities

- **Club Leadership:** Served as Student Coordinator for Causmic Club of the Applied Science, GNDEC Ludhiana.
- **Placement Drives:** Organized various placement drives as Executive member at Training and Placement Cell.
- **Hackathon Achievement:** BUILD'23 - global hackathon, where idea on Healthcare was presented and we were offered funding from a Chinese MNC the official sponsor of the Hackathon - Feb 2023.
- **Event Management:** Led 200-member team as Overall Student Coordinator for GNE's Apex.
- **Language Skills:** English (Business Professional), Hindi (Business Professional).