Aditya Sinha

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Education

Institution	Degree/Exam	Year	Score
Jaypee University of Information Technology, Solan (HP)	B.Tech in CSE	May 2025	CGPA: 8.02/10
RVN Public School, Dadahu (HP)	Class XII (HPBOSE)	June 2021	96%
DAV Public School, Dadahu (HP)	Class X (HPBOSE)	May 2019	89%

Skills

Programming Languages: C, Python, Java, C++, JavaScript, SQL

Frontend Development: React.js, TailwindCSS, Bootstrap, HTML, CSS

Backend, DevOps & Cloud: Node.js, Express.js, Flask, RESTful APIs, Azure, Linux, Docker, Git, GitHub, Apache2, Tomcat, CI/CD Concepts

Databases: MongoDB, MySQL, Firebase

Machine Learning & Data: Pandas, NumPy, Scikit-learn, Matplotlib, TensorFlow, OpenCV

Tools & Platforms: VS Code, Git CLI, Postman, Google Colab, MATLAB

Soft Skills: Leadership, Team Collaboration, Problem Solving, Self-learning, Event Management

Experience

- **Translab.io** *June 2023 – July 2023*

  Technical Intern | Jammu & Kashmir On-site
  - Worked extensively on Linux-based systems to configure development environments and troubleshoot system-level issues.
  - Deployed virtual machines and configured secure networking using Microsoft Azure VNet architecture.
  - Built frontend components using React.js for internal tools and interfaces.

- **BLACKCRAB IT PVT LTD** *June 2024 – July 2024*

  Frontend Developer Intern Remote
  - Developed a responsive and user-friendly landing page using React.js, HTML, and JavaScript to enhance user experience.
  - Collaborated with backend developers and designers to ensure seamless UI/UX integration and timely project delivery.
  - Integrated APIs using Node.js and tested endpoints to support dynamic data rendering on the frontend.

Projects

- **Enhancing Visibility in Hazy Images and Videos** ⌗ *June 2024 – May 2025*

  Python, TensorFlow, OpenCV, HDF5, HTML/CSS/JS
  - Developed a deep learning pipeline using residual CNN and transmission networks for haze removal on NYU-Depth V2.
  - Engineered a scalable patch-based preprocessing system utilizing HDF5 for high-efficiency training.
  - Integrated Flask with OpenCV to deploy a real-time image/video dehazing web interface.

- **Placement Portal** ⌗ *Jan 2024 – May 2024*

  Team Lead | React, TailwindCSS, Node.js, MongoDB
  - Led a team in designing and deploying a MERN stack portal for student–company interaction during placement drives.
  - Automated placement data reporting and streamlined year-end analytics using MongoDB aggregation.

- **Potato-Disease Classification** ⌗ *Dec 2023 – Jan 2024*

  Hackathon Project | Python, ML, React, Flask, React Native
  - Built a machine learning classifier achieving 90% accuracy in detecting potato leaf diseases.
  - Deployed the model in a cross-platform full-stack application using Flask API and React frontend.

- **SafeTransact Banking** ⌗ *Oct 2023 – Dec 2023*

  C++ (OOP)
  - Implemented secure and modular banking operations using OOP principles such as inheritance and encapsulation.
  - Applied structured error handling and transaction validation to ensure system reliability and integrity.

Certifications, Volunteering & Achievements

Certifications
- React Web Developer Certification
- Associate IT foundations skills (Python)

Volunteering
- **Student Coordinator** – Procurement & Events Committee (2021–24)

Achievements
- 2nd – Murious Hackathon'24 (JYC, JUIT)
- 3rd – Enigma Hack-a-con'23 (IEEE)
- 3rd – Enkindle Hackathon'22 (JUIT)
- 20th Rank – HPBOSE XII Board (2021)