



Surya Chaudhary

Roll No.: 2021UMT0194

Materials Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year of Passing
B.Tech (Materials Engineering)	Indian Institute of Technology, Jammu	7.95 (Current)	2025
12th Standard	Shri Sai Public School Dilari Govindpur	94%	2021
10th Standard	Jawahar Navodaya Vidyalaya Moradabad	96%	2019

WORK EXPERIENCE

- Research Intern, Indian Institute of Technology Bombay** May 2024 - June 2024
Transmission electron microscopy study of intermixing in InAs/GaAs(Sb) quantum dot heterostructures
 - Analyzed the concentration of the Sb (Antimony) in the InAs (Indium Arsenide) Quantum dot heterostructures.
 - Enhanced the result by prefiltering, background correction and postfiltering before quantification of the spectrum.
 - Interpreted the top part of the truncated pyramidal shape of the QD to get more accurate results after quantification.
 - Calculated a concentration ratio of 1.52 for the intensity counts of In (L) and In (L1) after deconvoluting the peaks

PROJECTS

- Amazon Clone Website** June 2024 - Present
Developed a full-featured e-commerce platform replicating the core functionalities of amazon Github
 - Tools & technologies used:** HTML, CSS, Javascript, React JS, Firebase
 - Programmed React to develop dynamic UI and Firebase for scalable backend like product browsing, checkout, cart items, payments, user authorization and authentication
- Portfolio Website** Jun. 2023
Explored the basic knowledge of infrastructure of hosting on github and web browsing technology of a website Github
 - Tools & technologies used:** HTML, CSS, JS, Bootstrap
 - Specialized in use of HTML5, CSS and JavaScript to build, design and customise the format and contents of webpage

KEY COURSES TAKEN

- Data Structure and Algorithms, DBMS, Operating System, Computer Networks, Network and System Security, Introduction to Cybersecurity, Computers and Programming, Linear Algebra, Calculus

TECHNICAL SKILLS

- Programming:** C++, Python, Java, SQL
- Tools & OS:** Git, Google Colab, Linux, Windows,
- Libraries/Frameworks:** Pandas, Numpy, React
- Web Skills:** Node.JS, HTML, CSS, Javascript, Bootstrap

ACHIEVEMENTS

- 400+ questions solved** on leetcode and enhanced my problems solving skills 2024
- Selected among top 5 students** in Materials Engineering in IIT Jammu.. 2024
- Secured All India Rank (AIR) 14688 in JEE Advanced** competing against approx. 16 lakh candidates and 2021
- Ranked in top 250 scholars** from 600+ JNVs in Ex-Navodaya Foundation Test for JEE Coaching Program . 2019

CERTIFICATIONS

- Google Cybersecurity Professional Certificate an online project authorized by Google and offered through Coursera
- Programming for Everybody, University of Michigan, an online project authorized and offered Coursera Network
- Investment Risk Management, an online non-credit project authorized and offered by the Coursera Project Network

EXTRACURRICULAR ACTIVITIES

- Winner in table tennis at the 2024 convoquer intercollege sports tournament organised in Jammu & Kashmir.
- Participated as part of the Institute Table Tennis Team in the Inter IIT Sports Meet 2022, 2023 and 2024.
- Succeeded in reaching the quarterfinals of the state-level Competition organised by Jammu & Kashmir Police in 2022
- Competeted in the Table Tennis National Meet organised by Navodaya Vidyalaya Samiti representing Lucknow Region.