Male Chemical Engineering LinkedIn | Website | Github

Minor Degree in Computer Science and Engineering

Examination	Curriculum	Institute	Year	CPI/%
Graduation	B. Tech.	Indian Institute of Technology, Bombay	2024	8.75
Intermediate	CBSE	Navyug Sr. Sec. Convent School, Delhi	2020	95%
Matriculation	CBSE	Daly College, Indore	2018	97.4%

SCHOLASTIC ACHIEVEMENTS AND AWARDS _

- Secured an All India Rank 1974 in IIT-JEE Advanced Examination among 0.2 million students across the country [2020]
- · Achieved 99.82 percentile in JEE Mains, securing All India Rank 2048 among 1 million+ candidates across India [2020]
- Recipient of the **Kishore Vaigyanik Protsahan Yojana** (KVPY) scholarship with an **AIR 511** among **50k+** applicants [2020]
- · Awarded School Topper title for exceptional performance in CBSE Class XII Board Exams among 200+ students [2020]
- Recognized for ranking in the top 0.1% out of 5 lakh+ candidates in the CBSE Class XII Mathematics Examination [2020]
- Received the Dewas Sr. Prize for School Topper in Class X among 150+ students securing 97.4% in CBSE Boards [2018]

PROFESSIONAL EXPERIENCE _

Deutsche Bank | Analyst

[Jul '24 - Present]

Creating robust technical solutions for Anti-Financial Crime

- · Upgraded four key components from JDK8 to JDK17 to ensure enhanced stability, improved performance and efficiency
- · Collaborated with the Head of AFC list management and sanctions securities to analyze third-party watchlist data coverage
- · Developed and implemented a comprehensive strategy to optimize data subscriptions, identifying potential cost savings
- · Resolved security model issues, improved data consistency, and enhanced automation for **internal watchlist processing**
- · Investigated and resolved defects, performed regression cleanup and improved Exception handling in the ETL workflows

Amity Software Limited | Freelance

[Jun '24 - Jul '24]

Received a Letter of Recommendation for on-time delivery and efficient project execution

- · Developed key modules of the Crew Management System for Delhi Metro Rail Corporation (DMRC) for iOS and Android
- · Built a comprehensive app for crew members to streamline equipment tracking, manage leaves, attendance and grievances
- · Increased operational efficiency by automating manual processes, improving data accuracy and enhancing user experience

Deutsche Bank | Analyst Intern

[May '23 - July '23]

Received a **Pre-Placement Offer** for exceptional performance during the internship

- · Conducted comprehensive load testing on the Cash Settlement Engine, assessing latency between various microservices
- · Simulated trade requests at increasingly high rates using Gatling to assess end-to-end system responsiveness, evaluating the process from subscribing to topics to publishing to subscribers using Google Pub/Sub, under diverse workload conditions
- · Monitored resource consumption during load testing, including thread utilization, heap memory allocation and CPU usage
- · Explored essential concepts of Google Cloud Computing, Behaviour Driven Development, Kubernetes and JUnit testing

Fogteams | ML Developer Intern

[May '23 - July '23]

Received a Letter of Recommendation for demonstrating proactice initiative and a strong work ethic

Founder: Kanik Arora

- · Led the team in building a Slack app assistant, on top of the Rasa framework, to provide on-demand notes and tasks retrieval, updating/uploading tasks, creating reminders, setting-up meetings etc. on the FogTeams conferencing platform
- · Collaborated with a team of 15+ developers to test and validate the product across environments for robust deployment
- · Trained an NLU model with data from real-time conversations and enhanced user experience by using stories and rules
- · Implemented server-side pagination to optimize performance for large data sets and ensure a seamless user experience

Electroshoe | Web and Blockchain Developer Intern

[Dec '21 - Feb '22]

Founder: Siddharth Mandala

Received Letter of Recommendation for showcasing strong problem-solving skills

· Developed an MVP web3 marketplace enabling users to view, mint and share NFT collections, optimized through lazyminting for efficiency and integrated with storage and payment solutions via an internal crypto wallet or the Metamask

· Scrutinized many on-chain/off-chain storage like Arweave, IPFS, Pinata to establish an immutable and secure NFT storage

Athena (Udemy for IITB)

[Jul '21 - Nov '21]

An **online learning and teaching** portal for the **10,000+** students of IITB having courses & workshops from cultural clubs

- · Spearheaded as lead web developer for full stack development of an Express app with MongoDB maintaining collections
- · Provided a user-profile authentication system using JSON Web Token along with password hashing for a secure process

Spanning Tree Protocol

[Sept '21

A self-configuring protocol that prevents loops in a network by ensuring a single active path

- Implemented STP on a given LAN and bridge topology to report the port status of all bridges after establishing the network
- Engineered a distributed logic algorithm in C++ by buffering the sender and receiver trace at each bridge and LAN node

WnCC Game Development Hackathon

[Apr '21]

Received a **Special Mention** for gameplay mechanics and design innovation

- · Implemented character movement, NPC interactions, quest systems and state machines for smooth gameplay transitions
- Designed tile-based levels with Unity's Tilemap system, optimized physics interactions using **Rigidbody2D** to enhance movements and collision detection and incorporated custom animations with the Animator Controller to manage states

Covid Scraper [Jun '21 - Jul '21]

Certified with Project and Distinction for the Web Scraping Django App

- · Presented real-time global and national COVID-19 statistics using web scraping functions of BeautifulSoup on Google News
- · Incorporated Google Maps JavaScript API for rendering an interactive world map displaying the world Covid-19 figures

POSITION OF RESPONSIBILITY

The Humanoid Project | Overall Coordinator

[Mar '22 - Apr '24]

An all-student technical group designing a social humanoid robot to be deployed in the IIT Bombay campus

- · Headed the team in technical events, recruitments, managing assets and funding rounds, securing 1.5 lakhs in investment
- Directed the AI subsystem as Project Lead and integrated diverse AI solutions like training YOLOv5 over a 1000+ image dataset for real-time object detection, engineering a Rasa-based chatbot with Mozilla DeepSpeech voice integration, etc.

Speezy | Head of Technology

[Feb '23 - May '23]

Speezy, Sponsorships Made Easy, helps connecting creators, college fests, and events with the right sponsors effortlessly

- Conceptualized key platform features, leading to national recognition on CNBC TV18 as a 'novel start-up in the digital space'
- Built and deployed Speezy's website, achieving 75K+ users in the first week, extracting high performance and scalability

Web Convener | Institute Cultural Council

[Jun '21 - May '22]

- · Worked in a team of three to successfully develop and redesign 12+ cultural club websites for the Culturals Gymkhana portal
- Spearheaded the end-to-end development of customized websites by liaising with 50+ council members across 10+ clubs
- · Orchestrated collaboration with 10+ cultural club representatives to drive projects aligning with institute-wide objectives

TECHNICAL SKILLS

Programming Frameworks Libraries Software C++, Python, HTML, CSS, JavaScript, SQL, Solidity, MongoDB, MATLAB, MLX, DBeaver Spring Boot, Quarkus, Django, React JS, React Native, Angular, Node JS, Pandas, Gatling Git & Github CI/CD, Amazon AWS, Google Cloud, Postman, Wireshark, Unity, Control-M

EXTRA-CURRICULAR ACTIVITIES

ТЕСН	 Completed the Hactoberfest challenge by Digital Ocean via open-source contributions [2021] Secured a global rank of 1884 in Google Kick Start Round B in competitive coding [2021] Certified with HackerRank Problem Solving (Basic) and (Intermediate) in C++ [2021] Certified 3 Star coder at CodeChef with a 1717 rating and 4 star in C++ at HackerRank [2021] 		
DEBATING	 Vice-Chaired the Futuristic Crisis Committee in the Mayo College Girls' School MUN [2024] Vice-Chaired the UN Human Rights Council committee in the Daly College Model UN [2017] Adjudged Best Delegate in EHMUN, Daly College Youth Parliament & BATCHMUN [2015, 2016] 		
SPORTS	 Completed the 2nd Edition of HRX Half Marthon '24 (21.097 kms) in 2 hrs and 25 mins [20] Emerged as undefeated champion of the Aavhan Revive Sports League Squash Comp. [20] Successfully summited the 3,810m Kedarkantha peak during a 6-day winter snow trek [20] Awarded renowned shot (10m Air Rifle) in the 61st National Shooting Championship [20] Received 1 gold, 2 silver and 1 bronze at the MP State Shooting Championship [2016, 20] Received a bronze (team) medal at the 14th All India IPSC Shooting Championship [20] Passed the National Cadet Corps Certificate A examination comprising of training periods a written test and completed the Combined Annual Training Camp VIII with a SGT rank [20] 		