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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]
- Secured a **Zonal Rank 2** in Madhya Pradesh zone in the finals of the **9th SOF - International Mathematics Olympiad** [2016]

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 proactive 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]

Received Letter of Recommendation for showcasing strong problem-solving skills

Founder: Siddharth Mandala

- Developed an MVP **web3 marketplace** enabling users to view, mint and share NFT collections, optimized through **lazy-minting** 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

KEY PROJECTS

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

EXTRA-CURRICULAR ACTIVITIES

TECH	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Completed the 2nd Edition of HRX Half Marthon '24 (21.097 kms) in 2 hrs and 25 mins [2024]• Emerged as undefeated champion of the Aavhan Revive Sports League Squash Comp. [2022]• Successfully summited the 3,810m Kedarkantha peak during a 6-day winter snow trek [2021]• Awarded renowned shot (10m Air Rifle) in the 61st National Shooting Championship [2017]• Received 1 gold, 2 silver and 1 bronze at the MP State Shooting Championship [2016, 2017]• Received a bronze (team) medal at the 14th All India IPSC Shooting Championship [2017]• Passed the National Cadet Corps Certificate A examination comprising of training periods and written test and completed the Combined Annual Training Camp VIII with a SGT rank [2017]