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]

TECHNICAL SKILLS

ProgrammingC++, Python, HTML, CSS, JavaScript, Terraform, SQL, MongoDB, MATLAB, DBeaverFrameworks LibrariesSpring Boot, Quarkus, Django, React JS, React Native, Angular, Node JS, Pandas, GatlingSoftwareGit & Github CI/CD, Amazon AWS, Google Cloud, Postman, Kubernetes, Unity, Control-M

PROFESSIONAL EXPERIENCE _

Deutsche Bank | Analyst

[Jul 2024 - Present]

Creating robust technical solutions for Anti-Financial Crime

- · Led onboarding and deployment of JupyterHub on GCP over 6 projects under strategic shift to GKE Multi-Tenant architecture
- $\bullet \ \ \text{Upgraded four key components from } \textbf{JDK8} \ \text{to } \textbf{JDK17} \ \text{to ensure enhanced stability, improved performance and efficiency}$
- Contributed to a comprehensive strategy to optimize data subscriptions, identifying potential cost savings over \$400,000
- Resolved security model issues, improved data consistency and enhanced automation for **internal watchlist processing**

Amity Software Limited | Freelance

[Jun 2024 - Jul 2024]

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 robust application for 4000+ crew members to digitize equipment tracking, manage leaves, attendance and grievances

Deutsche Bank | Analyst Intern

[May 2023 - July 2023]

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

Fogteams | ML Developer Intern

[May 2022 - July 2022]

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
- Trained an NLU model with data from real-time conversations and enhanced user experience using 100+ stories and rules
- Implemented server-side pagination to optimize performance over larger datasets and reduce load times by up to 80%

Electroshoe | Web and Blockchain Developer Intern

[Dec 2021 - Feb 2022]

Founder: Siddharth Mandala

Received Letter of Recommendation for showcasing strong development skills

- 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
- Evaluated Arweave, IPFS and Pinata to choose an on-chain network, ensuring immutability and cutting storage costs by 27%

CounterParty Data Management System

[Aug 2024]

Efficiently ingests, manages and retrieves financial entity data while ensuring data integrity and user security

- · Architected a scalable data ingestion pipeline using Spring Batch, achieving high throughput of 3k to 5k records per sec
- · Designed RESTful APIs with OpenAPI documentation, enabling dynamic data retrieval with filtering and sorting capabilities
- · Integrated role-based access control using Keycloak and Spring Security, ensuring secure user management across profiles

Athena (Udemy for IITB)

[Jul 2021 - Nov 2021]

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 2021]

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 2021]

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 2021 - Jul 2021]

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 2022 - Apr 2024]

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 2023 - May 2023]

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

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 [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 and CATC with a SGT rank [2017] 		