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 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 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

CounterParty Data Management System

[Aug '24]

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 second
- 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 '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

TECHNICAL SKILLS .

Programming Frameworks Libraries Software C++, Python, HTML, CSS, JavaScript, SQL, Solidity, MongoDB, MATLAB, MEX, 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 [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] 		