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 9<sup>th</sup> 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 injests, manages and retrieves financial entity data while ensuring data integrity and user security

- · Architected a scalable data injection 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	<ul> <li>Completed the Hactoberfest challenge by Digital Ocean via open-source contributions [2021]</li> <li>Secured a global rank of 1884 in Google Kick Start Round B in competitive coding [2021]</li> <li>Certified with HackerRank Problem Solving (Basic) and (Intermediate) in C++ [2021]</li> <li>Certified 3 Star coder at CodeChef with a 1717 rating and 4 star in C++ at HackerRank [2021]</li> </ul>		
DEBATING	<ul> <li>Vice-Chaired the Futuristic Crisis Committee in the Mayo College Girls' School MUN [2024]</li> <li>Vice-Chaired the UN Human Rights Council committee in the Daly College Model UN [2017]</li> <li>Adjudged Best Delegate in EHMUN, Daly College Youth Parliament &amp; BATCHMUN [2015, 2016]</li> </ul>		
SPORTS	<ul> <li>Completed the 2nd Edition of HRX Half Marthon '24 (21.097 kms) in 2 hrs and 25 mins [2024]</li> <li>Emerged as undefeated champion of the Aavhan Revive Sports League Squash Comp. [2022]</li> <li>Successfully summited the 3,810m Kedarkantha peak during a 6-day winter snow trek [2021]</li> <li>Awarded renowned shot (10m Air Rifle) in the 61st National Shooting Championship [2017]</li> <li>Received 1 gold, 2 silver and 1 bronze at the MP State Shooting Championship [2016, 2017]</li> <li>Received a bronze (team) medal at the 14th All India IPSC Shooting Championship [2017]</li> <li>Passed the National Cadet Corps Certificate A examination and CATC with a SGT rank [2017]</li> </ul>		