Shaik Jameel Ur Rahaman

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2023 - Present	B.Tech	Indian Institute of Technology Kanpur	7.5/10.0
2023	Class XII (CBSE)	Sri Chaitanya Vidya Niketan	94.6%
2021	Class X (State Board)	Sri Chaitanya EM School	10/10

Scholastic Achievements

- Secured **All India Rank 670** in **JEE Advanced 2023**, conducted by IIT Guwahati, among 2,00,000 shortlisted candidates.
- Successfully secured **All India Rank 398** in **JEE Mains 2023**, conducted by NTA, among 11,00,000 appeared candidates.
- Secured **Rank 448** in **AP EAPCET 2023** among 2,38,000 candidates(entrance test for UG courses in Andhra Pradesh).
- Secured **Rank 130** in **TS EAMCET 2023** among 1,95,000 candidates (entrance test for UG courses in Telangana state).
- Secured **All India Rank 2261** in **Kishore Vaigyanik Protsahan Yojna (KVPY) 2021-22**, conducted by IISc Banglore.
- **NTSE Scholar** Qualified **NTSE**, securing a position in the National Top **2000** out of 1 million students across the country.
- Qualified **AS RAO Olympiad**, securing a position in the National Top **170** out of 1 million students across the country.

Key Projects

Eventrix | Course Project, CS253, Prof. Indranil Saha | CSE, IIT Kanpur | *Jan'25-Apr'25*

- Collaborated in a 10-member team to successfully develop a **MERN-stack** web app for an on-campus event manager platform.
- Built and maintained **RESTful APIs** for user authentication, admin tools, event handling, and various user operations.
- Developed core modules including **JWT authentication**, real-time updates, live events page, and automated email alerts.
- Implemented role-based access, implemented secure **password hashing**, and used **Cloudinary** for dynamic image uploads.
- Integrated **MongoDB** for **backend database** for event data, **Express.js** and **Node.js** to build a secure **server-side API**.

Geopulse | Course Project, CS661, Prof. Soumya Datta | CSE, IIT Kanpur | *Jun'25-Ongoing*

- Designed and deployed a data visualization platform using **React** and **VTK.js** to explore global development indicators.
- Visualized datasets like population vs poverty, INR vs USD, and malnutrition trends with **dynamic graphs** and **3D plots**.
- Implemented custom interactive charts and spatial maps to represent urbanization and migration patterns across the world.
- Utilized **Python-based ML models** to highlight complex correlations and anomalies in economic and demographic datasets.
- Optimized data workflows using **Python** and integrated lazy loading in **React** to ensure smooth performance on **Big Data**.

Mini Mips Processor | Course Project, CS220, Prof. Debapriya Basu Roy | CSE, IIT Kanpur | *Mar'25-Apr'25*

- Architected a **IITK mini-MIPS** single-cycle processor supporting a custom **48-instruction subset** of the **MIPS ISA**.
- Assembled register files, instruction memory, **FSM** for the **control signals**, and a floating point-to-integer conversion module.
- Designed and implemented the **ALU** and **FPU** using a top-down approach to handle **R-type, I-type, J-type** instructions.
- Successfully mapped **insertion sort** algorithm, integer multiplication, and floating-point Subtraction directly onto an **FPGA**.

Library Management System | Course Project, CS253, Prof. Indranil Saha | CSE, IIT Kanpur | *Feb'25*

- Developed a Library Management System as an interactive command-line application in **C++**, using core **OOPS** principles.
- Implemented book borrowing, availability checks, and accurate fine calculation using **inheritance** and **polymorphic** classes.
- Designed a structured text-based interface for book tracking, user management, and transaction processing via commands.

Breaking Code | Mentored by Association for Computing Activities, IIT Kanpur | *May'24-Jun'24*

- Tackled challenges on core **DSA** concepts—sorting, graph traversal, dynamic programming, greedy strategies, and recursion.
- Engineered optimized **C++** solutions with a strong emphasis on **time and space efficiency**, code readability, and scalability.
- Collaborated in competitive coding contests to debug, refine logic, and efficiently handle edge cases under time constraints.

Competitive Programming

- Proficient Competitive Programmer with a peak **Codeforces** rating of **1586 (Specialist)** (**shaikjameelurrahaman**)
- Achieved a Global Rank of **1057** in **Codeforces Round 1028 (Div. 2)** among 35,000+ international participants.

Technical Skills

Programming Languages	C | C++ | Python | Verilog HDL | JavaScript | HTML | CSS | MIPS Assembly
Libraries and Frameworks	Numpy | Pandas | Matplotlib | Librosa | Scikit-Learn | React.js | Express.js
Software and Utilities	Git | Xilinx Vivado | QtSpim | Figma | Canva | LaTeX

Relevant Courses

**: Ongoing*

Data Structures & Algorithms	Software Development and Operations
Fundamentals of Computing	Introduction to Computer Organisation
Probability for Computer Science	Linear Algebra
Big Data Visual Analytics*	Introduction to Electronics
Discrete Mathematics	Logic for Computer Science

Extra Curricular Activities

- Served as a cadet in the **National Cadet Corps (NCC)** under the **2 UP Composite Technical Regiment (2UPCTR)**.