Aman Raw

Final Year Undergraduate
Computer Science and Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2019 - Present	B.Tech	Indian Institute of Technology Kanpur	6.4/10.0
2018	Class XII (CBSE)	Jawahar Navodaya Vidyalaya, Bundi, Raj	87.8%
2016	Class X (CBSE)	Jawahar Navodaya Vidyalaya, Firozabad, UP	9.8/10.0

Scholastic & Curricular Achievements

- Secured **All India Rank 6116** in **JEE Advanced 2019** among 2.3 lakh shortlisted candidates
- Secured **All India Rank 9331** in **JEE Mains 2019** with **99.2 percentile** among 12 lakh candidates
- Selected among **400 Students** from all **JNV** schools over India in **Dakshana Selection Test (NDST)** (2016)
- Selected among **top 30** students from all **23 IITs** in the **Ratti chhatr Scholarship by Panasonic**(2019)

Work Experience

- **Micron Technology Operations India LLP** | Firmware Engineer Internship *(May'22-Jul'22)*

Objective	To implement the **tool** for checking **coding standards violations**, which will avoid **manual** checking of rules.
Approach	-Worked with **SSD-Firmware team** and contributed to developing a **tool** to check violations in coding standard rules and to help **developers** in future by speeding up the process of checking coding standard rules. -Wrote scripts in **Python** to check coding style violations in **Firmware code** source files written in **C** language. -Worked on **Developer Test Framework(RDTF)**, to add some functionality to optimize **stubbing** performance, which is important for independent testing of all three domains **FE, FTL and BE**. -**Learning** : Used and learnt **Vera** tool, (**C** and **C++** program analysis and verification tool) along with basics of **SSD, Controller, Firmware** (**Garbage Collection, folding, Wear Levelling**).
Impact	**Presented** and **Documented** Coding standard rules and added **Code** to Micron's Git (**master branch**).

Projects

- **Smart Aquarium-IoT Project** | **IoT** Course Project ⌂ *(Mar'22)*
  - Worked on real-time monitoring of pH and Luminosity and sending the report on a webpage developed using MEAN stack
  - Used **C++** for gathering and manipulation of pH sensors and temperature sensor data using Arduino.
  - Used **Raspberry Pi, Arduino** to deploy sensors, actuators and established connection with the client using Socket.
  - Automatically handled non-ideal cases by adjusting water pH using solenoid valves and adjusting the brightness using bulbs
- **PHP - Educational Resources Platform** | Collaborative Project ⌂ *(Jul'22-Aug'22)*
  - Developed an educational web platform where users can get **e-books, quizzes & programming materials**.
  - Designed a **user registration & login system** and added **password reset functionality** using **PHP & HTML**.
  - Implemented functionality to map users with the courses and used **MySQL** for **managing**the **database** of e-books.
  - Developed the **frontend** using HTML5, CSS3 & Bootstrap and deployed the project on a live server through **000WebHost**.
- **Django - DigiSchool_IITK** | Software Course Project ⌂ *(Feb'22-Apr'22)*
  - Developed an interactive educational software where user can access and add course material and discuss with other user.
  - Designed a **user(with two different roles) registration & login system** using **Django authentication**.
  - Developed the **frontend** using **HTML5, CSS3 & Bootstrap**, used python for backend using **Django framework**.
- **Student Database Management System** *(Dec'21-Jan'22)*
  Prayas, IIT Kanpur | community welfare, IIT Kanpur
  - Developed a Student Management System in **C++** program for education establishments to manage student-related data.
  - Performed effective implementation of **OOPs** & **inbuilt libraries** to built a **console application**.
  - Application utilizes file handling where admin can **create**, **modify**, **delete** and **display** student record from a **DAT file**.

Technical Skills

- **Programming languages**
  - **Proficient**: C, C++ **- Familiar**: Python, Octave/Matlab, Assembly
- **Utilities:** Microsoft Excel, Latex, Git, Shell, Visual Studio, vim **Web Development :** HTML, CSS, php, MySQL

Relevant Courses   *(* - Excellent Performance) (** - Ongoing Courses)*

Data Structure & Algorithm	Computer Organisation	Operating System	Introduction to Machine Learning**
Fundamentals of Computing	Theory of Computation	Algorithms II	Introduction to IoT**
Data Analysis*(online)*	Compiler Design	Computer Networks*	Software Development and Operations

Positions of Responsibility

- **Senior Executive** | Techkriti'21 IIT Kanpur

Leadership	-Leading a **Junior Executive** team of **50 students** responsible for Conducting the **TOSC'21** Exam.
Initiatives	-Introduced some new **Marketing strategies** to get a great sponsorship amount for **Techkriti'21**. -Visited **11** Schools to Get a huge Participation In Most awaited Event of **Techkriti - TOSC'21**.
Impact	**600+** Students registered for the **TOSC'21** with conversion rate of more than **70%**

Extra-Curricular Activities

- Honored with **Governor Award** in **Bharat Scouts and Guides** for prompting young individuals. *(2016)*
- Secured 2nd rank in **Youth Parliament** Presentation in Firozabad district, for the role of **Law Minister**. *(2016)*