Yash Agarwal

Entry Number- 2021EE10638
BTech - Electrical Engineering
Indian Institute of Technology, Delhi

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Delhi	9.33	2021-Present
Senior Secondary, CBSE	Lakshmipat Singhania Academy	94.80%	2021
Secondary, WBBSE (Madhyamik)	St. Lawrence High School	81.28%	2019

ACHIEVEMENTS

- **IIT Delhi Merit Scholarship**, for being in top 7% out of 1250 students in my batch for both Semester I and II. *2021-22*
- **Department Rank 2**, out of 150 odd students in Electrical Engineering Department after the end of 1st Year. *2021-22*
- **Mimamsa, Zonal Toppers (Delhi)**, represented IIT Delhi in the Science Quiz, where 600+ teams participated. *2022*
- **Joint Entrance Examination (JEE) Advanced, AIR 499**, out of 200,000 candidates, who appeared for the exam. *2021*
- **Joint Entrance Examination (JEE) Main, AIR 2127**, in the top 0.01% candidates who appeared for the exam. *2021*
- **Kishore Vaigyanik Protsahan Yojana (SX), AIR 911**, in the top 0.1% candidates who appeared for the exam. *2021*

EXPERIENCE

- **IIT TechAmbit** *May 2022 - Present*
  Growth Team Remote
  - The first-of-its-kind Indian media body to bring out research, tech and other stories from the PAN-IIT Ecosystem.
  - Part of the expansion efforts, increasing the reach of the magazine at a PAN-IIT level, promoting research and startup.

- **Rancho Labs** *March 2022 - June 2022*
  Documentation Team Remote
  - Rancho Labs is dedicated to thrive students over innovation and technology, engaging them in challenging, interactive and enjoyable practical learning activities, so the application of their skills becomes natural to them, in the long run.
  - Documented different Arduino projects and ran a plagiarism checker on all the documents made by our team.

- **Travezco** *February 2022 - September 2022*
  Tech Intern Delhi
  - Collaborated with the UI/UX team to conceptualize, design, and develop wireframes for the UI/UX of the Platform.
  - With the help of the Tech team, designed the website from scratch, using HTML, CSS, and JS along with Django.

- **ExeBit** *August 2019*
  Core Committee Kolkata, India
  - Exebit is the annual and the largest techfest at the school level in Kolkata, organised by Lakshmipat Singhania Academy.
  - Worked closely with the other Event heads and School representatives for the smooth conduction of the event.
  - Successfully conducted an interschool coding competition with around 20+ different schools around India participating.
  - Questions and test cases were developed by us, inspired by the various questions available on the internet.

PROJECTS

- **Password Manager** *July 2020 - August 2020*
  Self Project Link to Project
  - The project is made in Python. Created the manager's basic UI and backend and added the necessary features.
  - Multiple people can use it. The passwords are hashed and the hashing algorithm was taken from the internet.
  - The password is never displayed, instead can be copied to the clipboard directly. A module named pyperclip is used.
  - Can be useful while working in the office or in a meeting when presenting the screen and not be terrified by onlookers.

- **Telegram UserBot** *February 2019 - July 2019*
  Self Project Link to Project
  - A must have bot if you are active on Telegram and it is becoming difficult to manage your chats or your groups.
  - Added whois command which gives all the details of a Telegram user and also optimised the typewriter command.

- **DBank- A DeFi App** *May 2022 - July 2022*
  Self Project Link to Project
  - The frontend is made using HTML and CSS. The backend is made using JS along with Motoko and ICP Integration.
  - Revamped the app to include new feature like changing Interest Rate and added animations to improve the UX.

- **OCS Attendance App** *July 2022 - Present*
  Automation Team, Office of Career Services
  - Created the Attendance app from scratch using the Microsoft Power Platform, with the help of Automation Team.
  - It is used by the Team members to mark the attendance or flag the students, and generate/download absentee lists.
  - New Tests and the students appearing for the tests can be added. The Team members can be assigned duties too.
  - The data, along with flag remarks is archived automatically at the end of the day, and the app data is cleared.
  - The Absentee List is generated everyday and an automated mail is sent to the OCS. This is also done automatically.

- **Dolphin - Run as Root** *April 2019*
  Self Project Link to Project
  - Dolphin is the default KDE File Manager, free and open source, included in the KDE Applications bundle.
  - Created a script to compile the latest version of Dolphin and enable running it as Root by modifying the source.

- **Syberia OS for MIDO** *October 2018 - January 2019*
  Self Project Link to Project
  - Learnt Android Development and made OS for my device and added new features from the custom ROMs present.
  - Learnt necessary git commands like pull, push, merge, rebase, cherry-pick and many more while making the ROM.

- **Paginate NFT's** *September 2022*
  Self Project Link to Project
  - Inspired by Solana CampusConnect Event where we were introduced to building and deploying apps on the live network.
  - Created a working app, based on Next.Js to display NFT's of any user using their Wallet ID in Solana Network.

- **Organisation Details Manager** *April 2022 - August 2022*
  Course Project Link to Project
  - Created an organisation hierarchy manager using C. The implementation is done using Linked Lists
  - You can find the team size, employees at same level, boss of an employee, average salary of employees and much more.

- **Sudoku Solver** *April 2022 - August 2022*
  Course Project Link to Project
  - Created a Sudoku Solver in Python. Back Tracking is used to Solve the Sudoku and return error if it cannot be solved
  - A number of helper functions were made to implement the algorithm. The Sudoku was validated using these functions.

- **Speed Control of DC Motor** *April 2022 - August 2022*
  Course Project Link to Project
  - Created and implemented the circuit on breadboard to control the speed of a DC Motor by Armature Voltage Control.
  - A potentiometer was used to vary the speed between 50% to 100% and the values were verified using a DSO.

TECHNICAL SKILLS

- **Programming**: Python, C/C++, Java*, BASH, LaTeX, Motoko*, SQL
- **Web Development**: HTML, CSS, JavaScript, Django*, Bubble
- **Others**: GitHub, MS Office, AutoDesk Inventor*, MatLab*, Android Studio, Microsoft Power Platform
- **Operating Systems**: Windows, Arch Linux, Manjaro, Ubuntu

* Elementary proficiency

KEY COURSES TAKEN

- **Completed**: Calculus, Linear Algebra and Differential Equations, Introduction to Computer Science, EM Waves and Quantum Mechanics, Engineering Mechanics
- **Ongoing**: Data Structures and Algorithms, Probability and Stochastic Processes, Signals and Systems, Digital Electronics, Circuit Theory, Physical Electronics, Control Engineering, Psychology

POSITIONS OF RESPONSIBILITY

- **Executive**, Office of Career Services, IIT Delhi *February 2022 - Present*
- **Student Programmes Representative**, International Programmes, IIT Delhi *May 2022 - Present*
- **Technical Representative**, Alumni Relations, IIT Delhi *May 2022 - Present*
- **Corporate Relations**, SInC, IIT Delhi *August 2022 - Present*

EXTRA CURRICULAR ACTIVITIES

- **Unnati**, worked as a social media intern in the NGO. *May 2022 - August 2022*
- **E-Cell IIT Bombay**, Campus Ambassador, representing IIT Delhi. *May 2022 - Present*
- **National Service Scheme**, part of different semester long projects. *May 2022 - Present*