

Rishab Aggarwal

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“An Engineer in making on a quest to make a difference.”

EDUCATION

Qualification	Year of Passing	University/Institute/Board	Majors/Subjects	Marks/CGPA
BE	2023	Thapar Institute	Electronics and Comp.	8.38
12th	2019	DAV Public, Amritsar CBSE	Science	78.2%
10th	2017	DAV Public, Amritsar CBSE	-	10

INDUSTRY PROJECTS

TECH MAHINDRA

Technology service and consultation MNC part of the Mahindra group

Pune, India

Aug. 2021 – Jan.2022

Student Intern, Makers Lab

Worked with Agritech and IOT team to develop technological solutions

- Explored strategies for an AI-based Smart Scarecrow to reduce crop damage and constructed a 3D model
- Worked on frugal anemometer prototype at 20% cost to test weather prediction hypothesis
- Practical experience with software development process & Agile methodology

PERSONAL PROJECTS

- 1. Client Management Software, Django, HTML, CSS, JavaScript** Jan.2022 - Ongoing
Executed Digital Transformation in a Law Firm by building customized software
- 2. QR Code Entry System, Django, HTML, CSS, JavaScript, AWS** August 2021
Programmed a unique contactless entry ticketing system to make seamless conduct of events for over 2500+ people
- 3. Agr-E, RaspberryPi, Python, OpenCV, NodeJS** Mar. 2022 – July 2022
Conceptualized an Intelligent NPK mapping rover to predict the best crops to grow in a given field and what fertilizers to use
- 4. DAYLIGHT HARVESTING, Firebase, EasyEDA, Arduino** Nov. 2021 – Ongoing
Implemented a novel IOT System for maximizing the use of natural lighting in existing infrastructure using smart curtains and intelligent lighting.

EXTRA-CURRICULARS

- SAIC –Executive Committee Member, Student Alumni Interaction Cell at Thapar University** Feb. 2021– Current
- Connecting alumni to the students with an engagement of 500+ Students
 - Contributed to Virtual Farewell Website to collect memories
- THE ART OF LIVING FOUNDATION – Volunteer, NGO Working for Mental Well-Being and Welfare** 2015 – Current
- Actively working in giving back to society through plantation drives
 - Distribution of medical supplies and Food during Pandemic
- FROSH – Mentor, Freshers onboarding team at Thapar University** Jul. 2020 – Dec. 2021
- Lead the backstage management team for 5+ events for 2500+ audience
 - Technical head for Virtual Events during Covid-19
- Innovators Club DAV – Founding President, STEAM Tinkering Community** Jan 2018 – May 2019
- Established a new club to foster creative thinking in with STEAM
 - Conducted workshops for various schools on Robotics

COURSES

Digital Electronics, Software Engineering, Operating System, Database Management Systems, Embedded Systems, Data Structures,

SKILLS

Technical:

Programming Languages – C/C++, Python, HTML, CSS, SQL, Shell Scripting, VHDL, ARM Assembly, MATLAB

Libraries and Frameworks – Django, Keras, Pandas, NumPy, TensorFlow

Software and Tools – Arduino, RaspberryPi, 3D Printing, KiCad, Mentor Graphics, LT Spice, OBS, AWS, Firebase

Interpersonal:

Critical Thinking, Problem Solving, Peer Mentoring, Collaborative Learning, Leadership, Enterprising

HONOURS & AWARDS

1. 2 Time recipient of Top innovations of the Country by Niti Aayog, Govt. of India for during ATL Marathon in areas of Agriculture and Healthcare
2. Winner Digital Village Hackathon by Tel Aviv University, Israel
3. Award of Honor for contributions in IT by District Administration of Amritsar