

SAYAN CHAUDHRY

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// EDUCATION

Carnegie Mellon University, School of Computer Science

Bachelor of Science, Computer Science, May 2021

GPA: 4.0

Relevant Coursework: Principles of Imperative Computation*, Principles of Functional Programming*, Matrices and Linear Transformations
Mathematical Foundations of Computer Science, Principles of Microeconomics

Delhi Public School, Rohini

Central Board of Secondary Education (Science), May 2017

96.4% – Valedictorian, CBSE All India Senior School Examination (Grade XII)

Clubs and Societies: Head Boy, Student Government; President, Computer Club; Founder & President, Quizzing Club

Other Achievements: Proficiency Holder, Special Achievement in Computer Science

// WORK EXPERIENCE

Edutech Foundation

Head of Operations, Jul 2015 – Jul 2017

- Initiated SheForSTEM campaign to inspire girls to pursue sciences in high school
- Created English speaking courses to help underprivileged children become job ready

Cluster Innovation Center, University of Delhi

Summer Intern, Jun 2016

- Developed control systems for track robots using computer vision for object recognition and scene analysis

// SELECTED PROJECTS

Cows and Bulls

15-122 Term Project, Nov 2017 – Dec 2017

- Developed a word game in Python using OpenCV and k-NN algorithm for optical character recognition and sockets for a multiplayer mode.
- Used pruning and decision trees to create an AI for the game.

VideoLingo

HackCMU, Sep 2017

- Created a desktop platform in Python with 4-member team to learn new languages by using community translated YouTube closed captions.
- Named the ‘Most Likely to be the Next Million Dollar Startup’.

Bhasha Technologies

BharatHacks, Jun 2017

- Developed an accessibility solution in Python with 4-member team to translate and dub the audio track of any YouTube video into Indian regional languages in real time.
- The project is now part of the IBM Global Entrepreneur network.

// RESEARCH

Realizing a Microprocessor as a Particle Sensor

Participant, Beamline for Schools (Mar 2017)

European Organization for Nuclear Research (CERN)

Button and Hook Tacking Device and Method Thereof (Patent Pending)

Awardee, Dr APJ Abdul Kalam IGNITE Award (Dec 2017)

President of India and National Innovation Foundation

Data Management Device to Enhance Cellular Connectivity in Rural Areas (Patent Pending)

Awardee, Dr APJ Abdul Kalam IGNITE Award (Nov 2016)

President of India and National Innovation Foundation

Computation Model for Detection and Profiling of Antimicrobial Resistance in *N. gonorrhoeae*

National Finalist (Dec 2015)

Intel IRIS National Science Fair

// AWARDS AND EXPERIENCE

- *International Rank 1*, National Cyber Olympiad 2015
- *Honorable Mention*, NASA Ames Space Settlement Contest for Komorebi – A Human Endeavour in Space
- *Second Runners-Up*, Computer Society of India’s Young Talent in Computer Programming
- *Student Organizer*, XINO 2016 – a statewide computer symposium with 300+ students from 25+ schools