

SAYAN CHAUDHRY

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// EDUCATION

Carnegie Mellon University, School of Computer Science

Bachelor of Science, Computer Science, May 2021

GPA: 4.0 (Dean's List F17)

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

// 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 using OpenCV

// SELECTED PROJECTS

ezxkcd

PennApps, Jan 2018

- Developed a media recommendation algorithm using sentiment analysis with a 3-member team that suggested xkcd comics by recognizing the user's current mood using OpenCV and Tensorflow
- The project was among the top 30 hacks at the hackathon

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 won the first prize at the hackathon 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*