

# Sayan Chaudhry

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## Education

**School of Computer Science,  
Carnegie Mellon University**  
*Bachelor of Science*  
Computer Science, May 2021

*Additional Minors:*

Human-Computer Interaction  
Business Administration

QPA: 4.0 (Dean's List)

*Relevant Coursework:*

- Database Systems\*
- Human-AI Interaction\*
- Introduction to Computer Systems
- Parallel and Sequential Data Structures and Algorithms
- Introduction to Machine Learning
- Designing Human Centered Software

*Teaching Assistant:*

- Great Ideas in Theoretical Computer Science
- Mathematical Foundations for Computer Science

## Skills

*Programming and Scripting:*

Python · C/C++ · SML · Swift · Javascript · React · LaTeX

*Technologies and Frameworks:*

Linux · Git · TensorFlow · SQL · MongoDB · OpenCV · REST

## Activities

**ScottyLabs**

Director

**TartanHacks**

Lead Organizer

## Work Experience

**Yelp** · Software Engineering Intern

May 2019 - August 2019

- Led web team to introduce portfolios for businesses as a direct monetization feature to highlight their distinctive products and increase CTRs
- Worked on migrating business pages to React from Cheetah templates by extracting all features into their own reusable components as part of the Core Experience team

**PreCog Research Lab** · Summer Research Intern

May 2018 - July 2018

- Used TensorFlow and MLKit to identify and analyze dangerous selfies on social media as part of the #Killfie project under Prof. Ponnurangam Kumaraguru
- Developed an Android app for the project to detect unsafe selfie taking behavior and warn users in real time that was featured on Patriot Act with Hasan Minhaj

**Language Technologies Institute** · Research Assistant

February 2018 - May 2018

- Extracted tabular data from webpages to help build a new web-browsing modality for the blind as part of the SayHear project
- Wrote MySQL queries to train ML algorithms how to extract information from parsed tables

## Selected Projects

**No Duckling is Ugly** · PennApps Fall 2018

- Developed a scalable IoT system to tackle the problem of bullying in schools by conducting sentiment analysis and voice model recognition using a RESTful API for CRUD operations
- The project won the Best Education Hack and the Best IoT Hack awards at the hackathon

**ezxkcd** · PennApps Winter 2018

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

**VideoLingo** · HackCMU 2017

- Created a desktop platform in Python that helps users learn new languages by using community translated YouTube closed captions with a 4-member team
- The project was named the 'Most Likely to be the Next Million Dollar Startup'

**Bhasha Technologies** · BharatHacks 2017

- Developed an accessibility solution in Python with a 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 and is part of IBM's Global Entrepreneur network

## Research

**Novel Defense Against Code Theft Using Properties of Fibonacci Series**

*Presenter, SIGBOVIK 2019*

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

*Awardee, Dr APJ Abdul Kalam IGNITE Award 2016 by National Innovation Foundation*

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

*National Finalist, Intel IRIS National Science Fair*

## Honors and Experience

- *International Rank 1*, National Cyber Olympiad 2015 (held in 22 countries)
- *Honorable Mention*, NASA Ames Space Settlement Contest
- *Second Runners Up*, Computer Society of India's Young Talent in Computer Programming