

Sayan Chaudhry

Pittsburgh, PA · hi@sayan.io · (412) 628-6515

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:

- Operating System Design and Implementation*
- Introduction to Computer Systems
- Parallel and Sequential Data Structures and Algorithms
- Introduction to Machine Learning
- Designing Human Centered Software

Skills

Programming and Scripting:
Python · C/C++ · SML · React ·
Swift · Java

Technologies and Frameworks:
Linux · Git · TensorFlow · SQL ·
MongoDB · OpenCV ·
RESTful APIs

Activities

**Great Ideas in Theoretical
Computer Science**
Teaching Assistant

ScottyLabs
Director

TartanHacks
Lead Organizer

Work Experience

Yelp · Software Engineering Intern

May 2019 - August 2019

- Introduced portfolios on the web as a direct monetization feature for businesses to highlight their distinctive products and boost search 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. Ponnuram Kumaraguru
- Developed an Android app to detect unsafe selfie taking behavior and warn users in real time

Language Technologies Institute · Research Assistant

February 2018 - May 2018

- Extracted tabular data from WWW pages 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 relevant 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 suggested xkcd comics by recognizing the user's current mood using OpenCV and Tensorflow 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 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 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

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