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# Sarthak Agarwal

Computer Science Student

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## TOOLS & TECHNOLOGIES

- SQL / MONGO-DB
- Figma / Adobe Photoshop
- JUnit / CUnit / GCOV / GPROF
- GitHub, ZenHub
- Arduino, OpenCV
- MIT App Inventor
- Alchemy, MetaMask

## PROGRAMING LANGUAGES

- C / C++ / Java / Python
- HTML / CSS / Php
- JavaScript (NodeJS / ReactJS)
- Solidity (Currently Learning)

## RELEVANT CLASSES

- **CSE 442:** Software Engineering
- **CSE370 :** Applied Human Computer Interaction and Interface Design
- **CSE312:** Web Applications
- **CSE 306:** Software Quality in Practice
- **CSE220:** Systems Programming

## CERTIFICATIONS:

- **UDEMY:** [C Programming For Beginners - Master the C Language.](#)
- **UDEMY:** [Web Development Bootcamp](#)

## ACHIEVEMENTS

- **Winner :** UB Hacking 2021
- **Mentor:** HackDavis 2018

## EDUCATION

### University at Buffalo (SUNY) - Buffalo

January 2020 – Present (*Graduating: December 2022*)

- *Pursuing Bachelor of Science in Computer Science*
- Concentrations in Software, Web Development & Programming Languages.

### De Anza College - Cupertino

August 2017 – June 2019

- *Acquired associates degree in Computer Science.*

## EXPERIENCE

### Teaching Assistant - University at Buffalo (SUNY)

January 2022 – Present

- Teaching Assistant for Prof. Kenneth Regan's Data Structure Course (CSE 250).
- My responsibilities include grading assignments alongside conducting recitations and office hours to help students better understand the concept of Data Structures

### Teaching Assistant / Tutor - De Anza College

January 2018 – June 2019

- Tutor for CS and STEM courses.
- Teaching Assistant for English Writing 1A under Prof. Alex Giardino

## PROJECTS

### [Cypher: Password Manager](#)

- Led the design and development of a password manager web application built using HTML, CSS, JS, PHP and MySQL alongside three other team members.
- Handled design, complete frontend development and few backend features.

### [UBLends](#)

- Developed an online marketplace created for University at Buffalo.
- In the team of four, I was responsible for all the front-end design and development utilizing ReactJS, HTML and CSS.

### [Frontline.AI](#)

- Won 1st Place in UB Hacking 2021 out of more than 100 teams.
- Constructed, with a team of three, a mask vending machine for people entering the grocery stores without wearing masks during the Covid-19 pandemic.
- Handled arduino functionality for a mask vending machine and developed an application to notify grocery store owners about the absence of mask on a shopper's face.