

# Sarthak Agarwal

Software Engineer

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Buffalo, NY, USA

## EXPERIENCE

### UBLends

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

### 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 a few backend features.

### Digital Currency Street Journal

- Developed a cryptocurrency and blockchain journal to monitor real-time trends and updates.
- Created a simple yet effective User Interface using various tools including **HTML, CSS, JavaScript** and **Wix**.

### Frontline.AI

- **Won 1st Place in University at Buffalo's yearly Hackathon (2021) out of hundreds of 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.
- **Technologies Used:** **OpenCV** to process real-time video feed to detect masks on faces.  
**MIT App Inventor** to develop an application to notify grocery store owners.  
**Arduino** for fabricating a face mask vending machine.

### **Teaching Assistant - University at Buffalo, Buffalo, NY**

Jan 2022 - Present

- Teaching Assistant for Prof. Kenneth Regan's **Data Structures and Algorithms** Course.
- Responsibilities include grading assignments alongside conducting recitations and office hours to help students.
- Encouraged student independence and academic achievement by exploring new concepts and activities.
- Provided tutorial support to students both one-on-one and in group sessions.

### **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

## EDUCATION

### **B.S IN COMPUTER SCIENCE**

(University at Buffalo, Buffalo, NY)

December 2022

### **ASSOCIATE DEGREE IN COMPUTER SCIENCE**

(De Anza College, Cupertino, CA)

## SKILLS

**PROGRAMMING LANGUAGES:** C | C++ | Java | Python | HTML | CSS | Php | JavaScript (NodeJS / ReactJS) | Solidity | Bash

**TOOLS AND TECHNOLOGIES:** SQL / MONGO-DB | REST APIs / Figma / Adobe Photoshop | JUnit / CUnit / GCOV / GPROF | Software Testing and Validation | MIT App Inventor | GitHub | AGILE - ZenHub | Arduino | OpenCV | Alchemy, MetaMask

**CERTIFICATIONS:** UDEMY: [Web Development Bootcamp](#) || UDEMY: [Master the C Language](#)