

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](#)

