Sarthak Agarwal

Student | Software Engineer

www.sarthakagarwal.dev

linkedin.com/in/sarthak-agarwal

sarthaka@buffalo.edu

+1(925) 290-5765

2402 N Forest Road, Getzville, NY, USA

EXPERIENCE

Full-Stack Engineering: [Freelance Web Developer](#) (*Jan 2021 - Present***)**

- Developing and maintaining the website, front and back-end functionality, to help businesses increase their productivity and online presence.
- Technologies and Tools used: **HTML, CSS, ReactJS, NodeJS, MongoDB, Adobe Creative Suite, etc.**
- Freelance clients include [Jasoria Brothers](#), [YK Agarwal And Associates](#).

Front-End Engineering: [UBLends](#) (*Jan 2022 - May 2022***)**

- Developed an online marketplace for University at Buffalo.
- The platform empowers the community to buy, sell and rent products without any middlemen interference.
- In a team of four, I was responsible for front-end design and development utilizing **ReactJS, HTML and CSS**.

Back-End and Database Engineering: [Cypher: Password Manager](#) *(Jan 2022 - May 2022)*
- 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.

Full-Stack Engineering: [Digital Currency Street Journal](#) *(Jun 2022 - Sep 2022)*

- 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**.

Hardware and Software Integration: [Frontline.AI](#) *(Nov 2022 - Dec 2022)*
- **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 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 - May 2022)*
- 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.

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 | JavaScript(NodeJS/ReactJS) | Swift | PHP |IOS |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](#)