**Saakshaat Singh**

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# **EXPERIENCE**

## **Dequarantine**

**Founding Engineer**

March 2020 –May 2020 **Tech Lead**

* Leading 3 teams with 12 developers from 4 countries in an **agile model** for building an online platform for virtual events
* Implementing and enforcing **gitflow** for all teams
* Developing **backend cloud APIs** in **Express** and **Firebase**
* Maintaining the **serverless database** with **Firestore**

## **UMass ACM**

**Vice Chair**

2020 – Present

Leading the executive boards of the **largest** student-run tech organization in Western Mass with 500+ members

* Creating new Special Interest Groups to cater to members’ interests. Started ICPC & Blockchain group with Gavin Andresen (**Bitcoin co-founder**) as advisor
* Created active **operation pipelines** between 5 different Interest Groups and actively recruited new members and set up new teams for marketing
* Won the global ACM award for best recruitment

**Stocksmith**

**Founder**

2019 – Present **Google DSC | UMass ACM ML Group**

* Leading development and research teams in a joint project to create an automated stock analysis system
* Working in an **Agile** environment with 4 week sprints
* Planning the project’s infrastructural framework

# **EDUCATION**

## **University of Massachusetts, Amherst**

**Double Major: Computer Science & Mathematics**

Graduation Year: 2022 **GPA: 4.0 | Honors | Dean’s List**

* **ACM Vice Chair** and **open sourced** **developer** at Google DSC

*Relevant Coursework*: Data Structures, Calculus 2 (Honors), Multivariate Calculus (Honors), Programming Methodologies

**SKILLS**

Java *•* Python *•* Javascript *•* C++ *•* SQL *•* Node.js React.js *•* Flutter *•* Serverless *•* REST *•* OOPS *•* gitflow *•*Google Cloud Platform *•*  APIs *•* Full Stack *•* G C P Shell *•* Agile

# **HONORS & AWARDS**

* Chancellor’s Award of $14,000 and Dean’s List
* Merit Certificate by Indian Government
* Scholar at High School for 6 years
* 3rd Position at Regional Robo Wars Competition

# **PROJECTS**

**Project and Team Matching Platform**

**(DSC Project)**

Simplify interorganizational hiring for projects

*•*

Central dashboard for managing projects, teams and applying for projects

*•*

**React.js** client with a **Node.js** backend supported by **Firebase**

*•*

Rewriting codebase in **Ruby on Rails** and **PostGres**

*•*

**Full Stack Social Media Application (**[**Memories**](https://memories-a1646.web.app/)**)**

Made **REST APIs** with authenticating middleware in **Express.js** and **Firebase** and tested them using Postman

*•*

Created frontend interface using **React** and maintained state using **Redux**

*•*

**Voice Assistant**

Parses user’s voice using **Google TTS** and saves it as a local audio file for interpretation

*•*

Performs tasks such as searching the internet using **Web Automation** or running bash.

*•*

**Automated Stock Analysis**

**([Stocksmith](https://github.com/stocksmith))**

Does *technical analysis* on numerical stock data using **Python Pandas** and **Numpy** and optimizes it with **Machine Learning**

*•*

* Uses **NLP** to read stock reports and market news to conduct *fundamental* and *sentimental analysis*
* **Golang** web application with **React** front end

**Web Crawler**

Crawls user given webpage and saves URLs and titles of all associated webpages on user’s system

*•*

* Built in **Java** and uses **regex** and **multithreading**
* Uses Java’s **Swing** library for GUI interface

# **VOLUNTEERING**

**Pure Trust India**

Trained people from rural India in computer skills, encouraging digital literacy and promoting a healthy perspective towards technologies.