

# SAARAA KAZI

SOFTWARE ENGINEER

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## EDUCATION

### M. H. Saboo Siddik College of Engineering

Bachelor's in Computer Engineering | June 2021

- Securing CGPA – 8.58

### M. H. Saboo Siddik Polytechnic

Diploma in Computer Engineering | June 2018

- Completed undergraduate diploma; 84.81%

### St. Agnes' High School, Byculla

10th Grade – SSC Board | June 2015

- Passed with distinction – 90.80%

## TECHNICAL SKILLS

HTML/CSS, JavaScript, MEAN stack, Ionic Framework, Material Design, PHP, MySQL, C, C++, Python/Flask, Adobe XD, Adobe Illustrator, Inkscape, GitHub, GitLab, JIRA, AWS

## SOFT SKILLS

Project Management, Documentation, Oratory skills, Event planning, Designing

## COURSES

- Certified course; C Programming – Aptech.
- Certified course; Arduino – Spoken Tutorial, IIT Bombay
- Certified course; PHP and MySQL – Spoken Tutorial, IIT Bombay

## EXTRA CURRICULARS

- Organizing team – Entrepreneurship Development Cell | Degree 2019 – 2020
- Editor and Designer – Departmental newsletter and magazine; Bits and Bytes | Diploma 2016 – 2018
- Student Coordinator – Technical Fest; Ignium | 2017 and 2018
- Student Coordinator – Cultural Fest: Tech Dept; Torque | 2017 and 2018

## ACHIEVEMENTS

- Zonal Level Android App Development – Winner
- Atharva Hackathon 2019 – Winner
- Inter-College Technical Project Presentation – 2nd Prize

## WORK EXPERIENCE

### Lead Software Engineer

Bitkraft Technologies | August 2022 – Present

- Handling communications and Technical Team Lead on a major client project.
- Mentoring new joiners and interns.
- Strategizing solutions
- Developing new logic and components
- Conducting code reviews

### FullStack Developer

Bitkraft Technologies | January 2022 – July 2022

- Angular based FullStack development for Online IDE platform.
- Sole frontend developer on a major client project.

### Software Engineer

Bitkraft Technologies | June 2021 – December 2021

- Sole developer on a cross-platform Angular Application using the Ionic framework for Mobile and Web Development.

### Web Development Intern

Success Tutorials, Ontario | Dec 2020 – May 2021

- Developed and deployed a student-tutor finding web portal.

### Software Development Intern

CHMI Indobionics | June 2020 – September 2020

- Testing new programs, making modifications in existing programs, and subsequently developing these modifications.

## ACADEMIC PROJECTS

### **Cricket Statistics API | June 2021**

A Python API using Flask framework for accessing cricket information from a dummy database.

### **Object Detection and Tracking | June – December 2020**

Object detection and tracking of fast moving objects for analytics using Machine learning model, Darknet and Mask-RCNN.

### **AI based Crop Detection | January 2020**

A Mobile application for SIH2020 hackathon that performs crop detection using AI and Deep Learning models such as VGG16. Created own dataset of crop images.

### **eYRC : Supply Bot | August 2019 – March 2020**

A Robot for the E-Yantra Robotics competition 2019–2020. The project included computer vision, microcontroller programming and delivery mechanisms.

### **CodeAdventure FINTECH | June – July 2019**

An interactive Real Time Analysis Dashboard for Aditya Birla Finance Ltd.

### **FridgeCam | March 2019**

A hardware module using Raspberry Pi and Pi Camera that can be connected to any fridge and can detect objects in it.

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## PROJECTS

### **Health care Product Revamp - Moving to Web from Desktop application**

Angular based development for Health care product.

- Co-created the base architecture and structure of the app
- Sole UI developer for the app
- Created components, following reusability and OOPS concepts.
- Mentoring and resolving doubts for teams and new joiners on the project
- Currently the Technical Team Lead responsible for developing reusable components, version control tasks, all communications with the client, strategising methods for task implementation and problem solving.

### **Online IDE Application | November 2021 - April 2022**

Angular based development for Online IDE platform.

- Created a core authentication (login, registration) app from scratch using the Ionic framework in Angular
- Added functionality for role management for admins, students and tutors using guards, error handling using interceptors
- Created the backend using Node.js and express
- Hosted on AWS

### **Religious Education Mobile App | June 2021 - April 2022**

Developing a cross-platform Angular Application using the Ionic framework for Mobile and Web Deployment.

- Handled client communication and requirements gathering
- Communicating with designer for design enhancements and suggestions
- Using the Ionic framework made enhancements and a full UI revamp on the Angular app
- Made backend changes using PHP Yii2 Framework
- Hosted on AWS

## **Editorial - A student-Tutor Web portal | December 2020 - June 2021**

Developing a student-tutor finding web portal.

- Created a web portal UI frontend using PHP, HTML 5, CSS 3, AJAX, JavaScript
- Backend using MySQL, phpMyAdmin
- Hosted on Microsoft Azure

## **Cricket Statistics API | June 2021**

A Python API using Flask framework for accessing cricket information from a dummy database

- Created schema for the database using an online tool - dbdiagram
- Created the RESTful API for POST, GET, PUT and DELETE requests using the Flask framework
- Tested on Chrome, Firefox and Safari browser tools using browser plugins for testing REST APIs

## **Object Detection and Tracking | June - September 2020**

Object detection and tracking of fast moving objects for analytics using Machine learning model, Darknet and Mask-RCNN.

- Created own dataset by writing a script and extracting frames from videos and labeling the required objects in the extracted frames
- Trained the dataset for detection of fast moving objects using Darknet (Yolov3) and Mask-RCNN
- Ran the test on the video

## **AI based Crop Detection | January 2020**

A Mobile application for SIH2020 hackathon that performs crop detection using AI and Deep Learning models such as VGG16. Created own dataset of crop images.

- Figma for designing the UI and mockups
- Used Android Studio and Java for creating the mobile application
- Google co-ordinates(latitude and longitude) and Camera integration in the mobile app
- fastAI for state-of-the-art results
- Google colab, VGG16 and Deep Learning models for training the dataset

## **eYRC : Supply Bot | August 2019 - March 2020**

A Robot for the E-Yantra Robotics competition 2019-2020.

The project included computer vision, microcontroller programming and delivery mechanisms.

- Used computer vision for detecting the packages(objects) on the field map
- Used Arduino Atmega368 for powering the motors, servo
- Created a custom external power source
- Fusion 360, for creating a design of the delivery mechanism

## **CodeAdventure FINTECH | June - July 2019**

An interactive Real Time Finance Analysis Dashboard for Aditya Birla Finance Ltd.

- Used Adobe XD to design the mockup and wireframes of the UI
- Used HTML 5, CSS 3, Javascript for the frontend dashboard
- Python libraries: pandas for data manipulation using the dataset provided
- Plotly for generating and plotting graphs
- Jupyter notebook for training the dataset and data analysis

## **FridgeCam | March 2019**

A hardware module using Raspberry Pi and Pi Camera that can be connected to any fridge and can detect objects in it.

- Created a dataset of the objects that are found in refrigerators. Used tensorflow package with python for the detection.
- Raspberry Pi and Pi camera for sending the data to the firebase database after detection from the Pi Camera.