

NISHANT BALAJI

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EDUCATION

University of California, San Diego

B.S. Computer Engineering, GPA: 3.97

La Jolla, CA

Oct 2020 - Jun 2024

EXPERIENCE

Engineers for Exploration: Acoustic Species Identification Project

Feb 2021 - May 2021

Software Engineer

Remote

- Assisting conversation researchers at San Diego Zoo in identifying individual species vocalizations using machine learning and manual identification.
- Used React and Flask in concurrence with Docker to assist in development of the Audio Labeling System.
- Improved upon many of the existing features of the labeling system, such as the audio labeling page and the user experience to make it more accessible for volunteer users.

ACM Dimensions Conference

Sep 2020 - October 2021

Developer, Logistics Lead

La Jolla, CA

- An upcoming conference hosted by ACM @ UCSD to celebrate the many diverse facets of technology
- Assisted in developing the static and live site for the event using Typescript and React.
- Planned the schedule for the conference, while also managing reservations and collaborating with other teams to organize events.

NOMAD

Sep 2020 - May 2021

Software Engineer

Remote

- Used Stripe in Node.js and React to create a payment workflow for renters and a payout workflow for hosts.
- Socially responsible startup serving to provide affordable real estate rentals to the general public.

PowerSchool

Jun 2019 - Jun 2019

Student Intern

Folsom, CA

- Assisted in organizing and running the Hour of Code community event for over 50 children of employees.
- Shadowed with various departments of the company to learn more about their work and learned about Agile/Jira methodologies

PROJECTS

Community

github.com/nishantbalaji/Community

- Created a social app that allows users to report issues or solutions in their communities.
- Used Mapbox and D3 in React to store and display the locations of local issues, as well as track the user's location and show them relevant issues.
- Stored marker data and issue/solution data in a Firebase database accessed with Node.js.

ABCD - A breast cancer detector

abcdetector.herokuapp.com/

- Created a web app that determines if a patient has Breast Cancer
- Used Flask and Python to create a web app that allows doctors to input a set amount of characteristics of a tumor and UC Irvine machine learning data to calculate if these characteristics were of a malignant or benign tumor.

Hap.py

hap-py.herokuapp.com

- Created a web app with Flask and Python that evaluates the user's emotional state and sends jokes to their phone accordingly.
- Used the Microsoft Face API to evaluate a user's emotions and integrated the Jokes API and the Twilio API to send a differing number of jokes to a user's cellphone depending on their happiness.

LEADERSHIP & ACTIVITIES

Solar Boat

Aug 2019 - May 2020

Team Leader

Folsom, CA

- Led a team of 10 students in designing and building a solar-powered boat for the SMUD Solar Boat Regatta.
- Assisted in designing the model for the boat, and worked to test and design the electrical components of the boat.
- Worked to shape the mold and craft the boat with carbon fiber.

CyberPatriot

Aug 2016 - May 2020

President (2019-2020) and Treasurer (2018-2019)

Folsom, CA

- Helped train the club of 30 members to most successful season in club's history: 4 platinum teams and 1 gold division team.
- Worked the Cisco Packet Tracer image in this defensive cybersecurity competition, and assisted teammates with Windows and Linux images.

SKILLS

Programming Java, Python, HTML, CSS, JavaScript, Typescript, C, C++

Technologies REST APIs, Node.js, React, Flask, MongoDB, Express, Amazon Web Services, Google Cloud Platform, Heroku, Docker