

NISHANT BALAJI

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EDUCATION

University of California San Diego

3.90 GPA

B.S. Computer Engineering

Oct 2020 - Jun 2024

Courses: Advanced Intro to Java, Data Structures and Algorithms, Software Tools and Techniques, Discrete Mathematics, Mathematics and Algorithms, Computer Systems Architecture, Intro to Analog Design

EXPERIENCE

NASA Goddard Space Flight Center

August 2021 - Present

Software Engineering Intern

Remote

- Working on the Earth Observation System Data and Information System (EOSDIS) team to work on **usage-based data discovery**
- Developing automated and semi-automated mechanisms using **natural language processing** and **machine learning** to identify, document, and classify the use of EOSDIS Earth Observation data in research articles and applications

Engineers for Exploration: Acoustic Species Identification Project

Feb 2021 - Present

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.
- **Summer 2021:** Awarded a **\$5000 scholarship** to continue doing research with the group over the summer.

NOMAD

Sep 2020 - Present

Software Engineer

Remote

- Socially responsible startup serving to provide affordable real estate rentals to the general public.
- Used **Stripe**, **Node.js**, and **React** to create a payment workflow for renters and a payout workflow for hosts.
- Developed **continuous integration pipelines** for deployment on **Firebase** and **AWS Elastic Beanstalk**
- Earned **\$50k+** in non-diluted funding, acquired **15+ listings** in **2 countries**, and completed **UCLA Anderson Venture Accelerator**

ACM Dimensions Conference

Sep 2020 - Present

Developer, Logistics Lead

San Diego, CA

- Assisted in developing both the static and live sites 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.

PROJECTS

Taskathon Go!: Activities on the go

<https://taskathon.netlify.app/>

- Created a social app that allows users to select tasks and things to do in their communities.
- Led **weekly stand ups** and **code reviews** in order to make sure product development was on schedule.
- Deployed application on **Netlify** and assisted developers in fixing bugs and code reviews.

Community: Social reporting made simple

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.

SKILLS

Languages Java, Python, JavaScript, Typescript, C, C++, Go, Bash, ARM Assembly, HTML, CSS, MATLAB

Technologies React, REST APIs, Node.js, Flask, MongoDB, Express, Git, JUnit, Make

Software Amazon Web Services, Google Cloud Platform, Github Actions, Heroku, Docker, GDB, Valgrind, Postman, Visual Studio Code

Hardware Arduino, Raspberry Pi