

NISHANT BALAJI

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EDUCATION

University of California San Diego

3.90 GPA

B.S. Computer Engineering

Oct 2020 - Jun 2024

WORK EXPERIENCE

NASA Goddard Space Flight Center

August 2021 - Present

Software Engineering / Machine Learning 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.
- Creating pipelines to efficiently extract article data and classify them by topic.

Engineers for Exploration: Acoustic Species Identification Project

Feb 2021 - Present

Software Engineer

Remote

- Collaborating with conservation researchers at the **San Diego Zoo** to develop **autonomous pipelines** to identify species vocalizations from over **1500 hours of audio data** collected from the **Peruvian Amazon Rainforest** in 2019.
- Used **React**, **Flask** and **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.
- Built functions to help better understand and clarify autonomously labeled outputs, including combining annotations and getting a graph of the general annotation length trends for a particular clip.
- **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.
- Earned **\$50k+** in non-diluted funding, acquired **15+ listings** in **2 countries**, and completed **UCLA Anderson Venture Accelerator**.
- Used **Stripe** to create a payment workflow for renters and a payout workflow for hosts with **Node.js**, and **React** to .
- Developed **continuous integration pipelines** for deployment on **Firebase** and **AWS Elastic Beanstalk**.

LEADERSHIP EXPERIENCE

Association for Computing Machinery (ACM)

May 2021 - Present

Events Coordinator

La Jolla, CA

- Coordinated event logistics for **230+ yearly workshops and social events** held between four different ACM communities, reaching **1200+ students**.

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**.

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, Docker, Heroku, Netlify, GDB, Valgrind, Postman