NISHANT BALAJI

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EDUCATION

University of California San Diego   *3.97 GPA*
B.S. Computer Engineering   *Oct 2020 - Jun 2024*

EXPERIENCE

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.

LEADERSHIP & ACTIVITIES

CyberPatriot   *Aug 2016 - May 2020*
President (2019-2020) and Treasurer (2018-2019)   *Folsom, CA*
- Helped train club of 30 members to **most successful season in club history**: 2 teams to statewide semifinals in this defensive cybersecurity competition.
- Worked the **Cisco Packet Tracer** image, and assisted teammates with **Windows** and **Linux** images.

SKILLS

Languages   Java, Python, JavaScript, Typescript, C, C++, Go, Bash, ARM Assembly, HTML, CSS, MATLAB
Technologies REST APIs, Node.js, React, Flask, MongoDB, Express, AWS, GCP, Heroku, Docker, Git, GDB/Valgrind, JUnit, Makefile