

NISHANT BALAJI

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EDUCATION

University of California San Diego

B.S. Computer Engineering

3.85 GPA

Oct 2020 - Jun 2024

WORK EXPERIENCE

NVIDIA

Software Engineering Intern

Jun 2022 - Sep 2022

Santa Clara, CA

- Working on the **Hardware Infrastructure Group** in the **Test Automation Team** as a Software Engineering Intern.
- Using **React**, **Fast API**, and **Redis** to develop a web interface for hardware architects to view tests running on the layers of hardware.
- Implemented **websockets** to live update data throughout the platform, providing users a real-time view of their running test batches.
- Creating **continuous integration pipelines** to effectively test and deploy code using **Docker** and **Kubernetes**.

NASA Goddard Space Flight Center

Software Engineering / Machine Learning Intern

Aug 2021 - Dec 2021

Greenbelt, MD

- Worked with the **Earth Observation System Data and Information System** team on **usage-based data discovery**.
- Developed automated **Natural Language Processing** tools to identify and classify external usage of Earth Observation data.
- Created pipelines to streamline classification of 6000+ articles by topic.

NOMAD (acquired by WISH STR Enterprises)

Software Engineer

Sep 2020 - Aug 2021

Los Angeles, CA

- Socially responsible startup serving to provide affordable real estate rentals to the general public.
- Used **Stripe** to create a payment workflow for renters and a payout workflow for hosts with **Node.js**, and **React**.
- Developed **continuous integration pipelines** for deployment on **Firebase** and **AWS Elastic Beanstalk**.

LEADERSHIP EXPERIENCE

Association for Computing Machinery (ACM) at UCSD

Vice President of Events

May 2021 - Present

La Jolla, CA

- Coordinated event logistics for **230+ yearly workshops and social events** held within ACM communities, reaching **1200+ students**.
- Managed a team of **10+ others** and collaborated in planning and creating technical workshops for ACM members.

PROJECTS

Triton Software Engineering at UCSD

Full Stack Developer

Nov 2021 - Present

La Jolla, CA

- Working with **Next.js** and **PostgreSQL** to create a website for the non-profit organization **League of Amazing Programmers**
- Coordinating with designers to efficiently complete tickets in weekly sprints and create multiple iterations of the product.

Engineers for Exploration: Acoustic Species Identification Project

Software Engineer

Feb 2021 - Aug 2021

La Jolla, CA

- Collaborated with conservation researchers at the **San Diego Zoo** to develop **automated pipelines** to identify species vocalizations.
- Used **React**, **Flask** and **Docker** in developing the Audio Labeling System to process over **1500 hours of audio data** collected from the Peruvian Amazon Rainforest in 2019.
- Improved upon existing features of the system, including the audio labeling page and UX, increasing accessibility 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.

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.

SKILLS

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

Technologies React, REST APIs, Node.js, Flask, FastAPI, Redis, PostgreSQL, Next.js, Figma, MongoDB, Express, Git, JUnit, Make, Android, Robolectric, Espresso

Software AWS, Google Cloud Platform, Github Actions, Docker, Heroku, Netlify, Valgrind, Postman, PSpice, LTSpice