

NISHANT BALAJI

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EDUCATION

University of California San Diego

B.S. Computer Engineering

M.S. Computer Engineering

3.74 GPA

Oct 2020 - Jun 2024

Sept 2024 - Jun 2025

WORK EXPERIENCE

Roblox

Software Engineering Intern

Jun 2023 - Sep 2023

San Mateo, CA

- Created OpenCloud APIs for access to Roblox's Memory Stores API outside the Roblox Studio platform, using **C#** and **Lua**.
- Worked in a cross-team environment to make product decisions about the APIs, affecting over **10,000 developers**.
- Improved **Open Cloud** processes and standards at Roblox, streamlining the pipeline for future APIs.

NVIDIA

Software Engineering Intern

Mar 2023 - Jun 2023

Santa Clara, CA

- Worked on the **Hardware Infrastructure Group** in the **Security Team** as a Software Engineering Intern.
- Implemented **OpenTelemetry** Instrumentation into NVIDIA's Security Auditing Platform
- Used **Django**, **Grafana**, and **Open Telemetry** to improve to provide crucial insights to the platform's status.
- Created dashboard that collected valuable **metrics** and other information to streamline and improve development experience.

UCSD CSE Department

Tutor

Jan 2023 - Mar 2023

La Jolla, CA

- Taught Programming Tools & Techniques to **650+ students**
- Led weekly lab sections of **100+ students** in learning and assisting with questions.

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.

LEADERSHIP EXPERIENCE

Association for Computing Machinery (ACM) at UCSD

President

May 2021 - Present

La Jolla, CA

- Coordinated event logistics for **230+ yearly workshops and social events** held within ACM communities, reaching **2000+ students**.
- Managed a team of **95+** and collaborated in planning and creating technical workshops, projects, and social events for ACM members.
- Fostered the development of **ACM's outreach program** that exposed computer science to hundreds of underrepresented students.

PROJECTS

Triton Software Engineering at UCSD

Full Stack Developer

Nov 2021 - Jun 2023

La Jolla, CA

- Worked with **Next.js** and **PostgreSQL** to create a website for the non-profit organization **League of Amazing Programmers**

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 and visualize over **1500 hours of audio data**.

SKILLS

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

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

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