NISHANT BALAJI

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EDUCATION

University of California San Diego   *3.74 GPA*
B.S. Computer Engineering   *Oct 2020 - Jun 2024*
M.S. Computer Engineering   *Sept 2024 - Jun 2025*

WORK EXPERIENCE

Roblox   *Jun 2023 - Sep 2023*
Software Engineering Intern   *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.

UCSD CSE Department   *Jan 2023 - Present*
Tutor   *La Jolla, CA*
- Taught Programming Tools & Techniques to **650+ students** and Advanced Data Structures to **600+ students**
- Led weekly lab sections of **100+ students** in learning and assisting with questions.
- Assisted students with programming assignments in weekly office hours, aiding over **30 students per week**.

NVIDIA   *Mar 2023 - Jun 2023*
Software Engineering Intern   *Santa Clara, CA*
- Worked on the **Hardware Infrastructure Group** in the **Security Team** as a Software Engineering Intern.
- Used **Django**, **Grafana**, and **Open Telemetry** to instrument and provide crucial insights to NVIDIA's Security Auditing Platform.
- Created dashboard that collected valuable **metrics** and other information to streamline and improve development experience.

NVIDIA   *Jun 2022 - Sep 2022*
Software Engineering Intern   *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   *Aug 2021 - Dec 2021*
Software Engineering / Machine Learning Intern   *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   *May 2021 - Present*
President   *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   *Nov 2021 - Jun 2023*
Full Stack Developer   *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 *Feb 2021 - Aug 2021*
Software Engineer   *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