MARISSA ESTEBAN

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EDUCATION

University of San Diego - Honors College, San Diego, CA   May 2024
B.S Computer Science; Minor Art History and Mathematics   GPA: 3.83

PROFESSIONAL EXPERIENCE + PROJECTS

Research Student at Karolinska Institutet; Stockholm, Sweden   June 2023 - August 2023
- Utilized nf-core analysis pipeline to detect germline and somatic variants within breast cancer (BC) patients WGS data
- Found 50 common SNPs (genetic mutations) across patients, 16 were BC related
- Cross referenced heavily mutated genes with spatial transcriptomic gene expression data using R
- Presented data and experience at the national Biomedical Engineering Society conference in Seattle, WA

Benchmark Labs   Sep 2023 - Present
Senior Design Project
- Developed and refined predictive models for wave height and wave period using historical and prospective in-situ data to deliver insights on local and regional environmental conditions.
- Integrated AWS Lambda to automate model execution to support dynamic environmental monitoring

Spaced Cadet   Summer 2022
Research Assistant
- Worked with Dr. Saturnino Garcia in the USD Computer Science Department to create an educational web application for the computer science department at the university.
- Engineered both front-end and back-end components, including new feature development and optimization of object-relational models to improve application performance and user experience.
- Implemented comprehensive testing protocols to ensure robustness and reliability of new features prior to public deployment.
- Utilized a full stack toolkit comprising Flask for server-side operations, SQL Alchemy for database management, Bootstrap for responsive front-end design, and Git for version control and collaborative development.

Computer Science Tutor and Lab Assistant   Sep 2021 - Present
- Partner with faculty to help CS students acquire confidence in problem-solving and designing programs. Assist students in understanding programming concepts such as algorithm complexities, data structures, and using object-oriented design. Provided new ways of visualizing CS.

Marissa Esteban Photography   June 2019 - Present
Photographer & Editor, Content Creator; PORTFOLIO LISTED ABOVE
- Manage and create content for Instagram stories and posts to promote business.
- Design and manage portfolio website to facilitate client inquiries and bookings. Coordinate schedules for client photo sessions. Edit photo sessions to release the ready photo sets to clients.
- Photographed over 25 senior and family sessions in the first month of startup

Advancing Students Forward   Aug 2022 - Present
Communication Assistant
- Establish the brand presence of ASF as a binational nonprofit
- Interact with supporters and other stakeholders via the company's social media accounts.
- Analyze the company's digital marketing plan and social media strategy.

University of San Diego Student Media   June 2021 - Present
Web Editor
- Managed the digital content strategy for multiple platforms, enhancing user engagement through data-driven insights and interactive web elements.

Art Director
- Managed all design and graphic content creation each production week to total 12 issues per semester and counsel the Executive Team on the overall design of *The USD Vista*. Maintained consistent communication with section editors each week concerning graphic and design needs.

Torero Program Board & Associated Student Government   December 2021 - June 2022
Brand Manager
- Developed a brand package for TPB and worked with the marketing committee, TPB chair, and a team of 15 event coordinators in maintaining the organization's visual identity.
- Re-imagined the design process to ensure clear design project requests and efficient revision handovers between the marketing team and event committees. Work with these teams to produce digital and print media, and merchandise for events and promotional campaigns.
- Assisted in developing the marketing strategies and produced the visual identity for the Ole Music Festival which headlined Amine. Attendance reached nearly 2000 people.

TECHNICAL SKILLS & PROFICIENCIES

Python, C++, Java, HTML, R, Hardware Design, GitHub, Linux, Adobe Software, Figma

LEADERSHIP & ACTIVITIES

USD Jiu Jitsu, *President*
USD Club Swim, *National Qualifier*
Society of Women in Engineering

Association for Computing Machinery
Filipino Ugnayan Student Association