

Rafael Mojica

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EDUCATION

Diablo Valley College

Electrical Engineering & Computer Science

University of Asia & The Pacific (High School Diploma)

Media & Entertainment Management

January 2023 - May 2025

Current GPA: 3.89/4.0

July 2020 - July 2022

RELEVANT COURSEWORK

- Adv. Programming C++
- Data Structures
- Assembly Language
- Object-Oriented Programming
- Mechanics and Wave Motion
- Differential & Integral Calculus

WORK EXPERIENCE

Mathnasium | *Mathematics Tutor*

Sept. 2023 - Present

- Designed and delivered personalized tutoring sessions in mathematics to students across grades 1-12, adapting instructional methods to fit each students' needs and learning preferences.
- Offered specialized support for mathematics homework, ensuring students comprehended concepts and successfully completed assignments.
- Fostered a supportive and encouraging learning environment, guiding students toward achieving their academic goals and cultivating a strong foundation for future mathematical endeavors.

LEADERSHIP EXPERIENCE

Google Developers Student Club | *Vice President of Software Engineering*

August 2023 - Present

- Developed professional websites using HTML5, CSS3, Tailwind, JavaScript, React, and Next.js with best practices
- Improved website performance by compressing, caching, and lazy loading images and components
- Included SEO, responsive, multi-platform, and hosting support, enabling their website to be used by any browser or device in the world
- Used Git for version control, fostering a collaborative and efficient workflow through the use of branches and pull requests to manage features and updates effectively.

Alpha Gamma Sigma Honor Society | *Webmaster*

August - December 2023

- Managed and maintained the club's website, ensuring timely updates of content, incorporation of new photos, and revision of informational sections keeping the site up-to-date.
- Executed a comprehensive website redesign, modernizing the visual aesthetic through strategic updates to color schemes, imagery, banners, and other design elements to enhance user experience and site appeal.

DVC Freedom Wall | *Project Lead (in GDSC)*

September - November 2023

- Lead developer of DVC Freedom Wall website, a dynamic online space for student expression and community
- Utilized Next.js and Tailwind best practices with mobile responsiveness
- Utilized backend cloud computing services like Firebase for storing users' posts.

Viking Hacks 2024 | *Project Lead (in GDSC)*

January - March 2024

- Lead developer for the club's flagship hackathon website, overseeing project management, design, and development phases to deliver a user-centric platform.
- Utilized React and Tailwind best practices ensuring a scalable, and highly responsive user interface, prioritizing user experience.
- Deployed the website on Hostinger, optimizing for performance and reliability to accommodate high traffic volumes, ensuring seamless accessibility for all hackathon participants.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, HTML/CSS, C++

Tools: Git/GitHub, VS Code, IntelliJ CLion

Frameworks: Next.js, React, Tailwind, Material-UI, Node.js, WordPress