

ASAREL CASTELLANOS

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EDUCATION

California Polytechnic State University, San Luis Obispo
BS Economics (Quantitative Analysis)

San Luis Obispo, CA
Sept 2023 - Dec 2025

WORK EXPERIENCE

Snap

Software Engineering Intern

Santa Monica, CA

Jun 2024 - Sep 2024

- Researched and identified gaps within our media metrics pipeline, ultimately building documentation that highlighted the gaps and the new tools built to help track our media.
- Developed a prototype within Google Colab that funneled data from BigQuery about two major products: Stories and Spotlight, which showed media quality information from every step of media upload/orchestration.
- Reduced debugging media quality & degradation tickets by 80%, by building a tool that allows any engineer to see the complete media lifecycle based on their ids.

Axios

Software Engineering Intern

Remote (Los Angeles, CA)

Jun 2023 - Aug 2023

- Conducted research and deployed a honeypot on newsletter sign-up forms, identifying and labeling 3,000 suspected bots within the first week of implementation.
- Contributed to the migration of newsletter sign up and confirmation pages from Webflow to Next.js, while also writing an accessible carousel and newsletter card component in Typescript.
- Engaged in competitor newsletter page analysis, providing research-based recommendations, and actively contributed to design of the newsletter sign up and confirmation pages.

Snap

Engineering Academy Scholar

Santa Monica, CA

Jun 2022 - Aug 2022

- Developed a Snapchat template using React Native, adopted by all Snap Academies 2022 & 2023 teams, streamlining instructors' workflow and saving approximately 1 week of their time.
- Solely engineered a Snap Mini using React Native, integrating Expo Camera and Firebase within a 6-hour timeframe.

CLUB & LEADERSHIP EXPERIENCE

Cal Poly SHPE

Transfer Representative

San Luis Obispo, CA

Sep 2023 - Jun 2024

- Collaborated with other on-campus clubs to organize events for transfer students.

Treasurer

Sep 2024 - Present

- Oversaw and managed the development of calpolyshpe.org. Helped scaffold web components and currently maintain and manage the web hosting.
- Overhauled our member check-in system and developed "Parousia" (view "Projects" for more info).
- Coordinated all the logistics behind '24 SHPE National Convention. This meant securing lodging, tickets, and organizing arrival and departure times for all our members.

PROJECTS

calpolyshpe.org *Next.js, Javascript, TailwindCSS, Sanity.io*

The website used by the Cal Poly SHPE chapter. Shows off events, officers, and sponsors of the club.

Parousia *Next.js, Javascript, TailwindCSS, Supabase, SQL, Card Reader*

A web application that allows Cal Poly SLO students to sign in to SHPE club meetings and events with just a swipe of their Cal Poly ID card. Allows us to record more accurate headcount and check-in members faster.

SMC Grades *Python, Pandas, OpenPyxl, Node.js, EJS, Javascript, MongoDB, Next.js, TailwindCSS*

An open-source project that takes Santa Monica College grade distribution PDFs and class schedules and transforms the data. Stored within a database that is easily accessible through the Grades API. Lastly, smcgrades.com allows students to schedule their semester based on historical grade distributions of each respective professor.

SKILLS

Programming Languages: Javascript, Typescript, Python, SQL, Go, Java, HTML, CSS

Frameworks/Libraries: Next.js, React.js, Angular, Vue.js, SvelteKit, React Native, TailwindCSS, Sanity

Backend: Node.js, Express, MongoDB, Firebase, Google App Engine, Heroku

Tools: Github, Git, Postman, Vercel, Jira, Sailthru, Colab, BigQuery