

# Matteo Terrien

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## Education

**California Polytechnic State University** - Dean's List - Bachelor of Science, Computer Science - GPA: 3.4 June 2024

**Diablo Valley College** - Academic Honors - Computer Science September 2019 - May 2023

## Technical Skills

Programming Languages: C/C++, Java, JavaScript, Python, SQL, HTML, CSS

Frameworks: React.js, React Native, AWS, Express.js, Node.js, MongoDB, Leaflet.js, Esri's ArcGIS JavaScript SDK

Languages: Fluent in English, French, and Portuguese

## Professional Experience

**Swift Comply** - Software Engineer Internship June 2024 - January 2025

- Began by leveraging Esri's ArcGIS JavaScript SDK to develop a map featuring a custom layer that visualized client backflow device locations and compliance status.
- Resolved missing device coordinate issues by integrating Esri's geocoding API to retrieve and display accurate location data on the map.
- Transitioned to the ArcGIS Python API to update data on a feature layer hosted by Esri, enabling integration with an ArcGIS Online Dashboard I designed.

**Doce** - Software Engineer Internship June 2023 - August 2023

- Developed and integrated Front-End, Object-Oriented JavaScript scripts across home, settings, and cart screens to bring new features such as informative pop-ups and previews, to enhance user experience.
- Developed a robust sign-up process with React Hook Forms spanning multiple pages and retaining user data for review before MongoDB storage. The task succeeded in having user profiles with personalized datasets.
- Wrote and edited CSS blocks with the ability to be used in different scripts throughout the project for practicality and scalability.

## Student Projects

**Vera** - Project Lead September 2023 - June 2025

- Transitioned into Project Lead for an established project which aims to create a user-friendly website for Cal Poly students, offering mental health resources.
- As Project Lead, I am tasked with creating user stories in GitHub for team members, resolving merge conflicts, and helping teach my peers how to write certain scripts in JavaScript or use the MERN stack to their advantage.
- Developed expertise in how to create sprint boards and project timelines that are achievable.

**San Francisco Crime Report Map** 2024

- Created an interactive map visualizing crime report locations from 2015 onwards using HTML, JavaScript, and the Leaflet.js library.
- Improved user engagement by implementing clickable markers that display detailed crime information and using color-coded markers to represent the resolution status of each event.
- Utilized jQuery's Ajax API to fetch data from San Francisco's publicly accessible datasets, ensuring up-to-date and accurate information.

**Contact List** 2024

- Led a team in creating a contact list website using the MERN stack.
- Taught my peers how to use API calls to show user data in the frontend and how to use GitHub commands.
- Resolved every Merge Conflict in GitHub to maintain a clean and functioning project

## Other Experience

### Volunteer Experience

- **Blue Angels Snow** - Sierra at Tahoe (2018 - 2023) – Chaperone
- **Saint Vincent de Paul** - Oakland (2022) - Distributed and helped prepare meals for homeless people.
- **Run For Kibera** - Lafayette (2016) – Organizer

**Rebuilt 1996 Mazda Miata Engine** – June 2021 – August 2021