

Nikolas Dittmar

nikodittmar@gmail.com • nikodittmar.com • (626) 587-1487 • Oakland, CA

Education

University of Wisconsin-Madison

Expected Graduation May 2027

- Bachelor of Science, Computer Science
- Cumulative GPA: 4.0, Academic Standing: Dean's List

Technical Skills

Programming Languages: Swift, Ruby, Python, Rust, Javascript, Typescript, Java, HTML, CSS.

Frameworks/Libraries: SwiftUI, XCTest, Ruby on Rails, RSpec, Next.js, React.js

Personal Projects

MyRaceTimer

Developed an innovative app from scratch with Swift and SwiftUI that allows for the timing of mountain bike races using iPhones, bypassing the need for specialized and expensive timing equipment.

- Used in the Joaquin Miller Park Enduro and the Briones Winter Enduro providing accurate timing results for 200+ racers across 6 separately timed segments.
- Utilized industry-standard methodologies such as Model-View-ViewModel (MVVM) architecture and Test-Driven Development (TDD) with XCTest to ensure robustness and reliability.

Form Builder

Created a form builder to streamline Joaquin Miller Park Enduro event registrations and to facilitate the efficient processing of Bicycle Trails Council of the East Bay volunteer liability waivers.

- Used Ruby on Rails for the backend, implementing a custom JSON Web Token (JWT) authentication system. Adhered to Test-Driven Development (TDD) best practices with RSpec to ensure product reliability and scalability.
- Designed a dynamic and intuitive Next.js frontend, leveraging React to create a responsive user interface. Incorporated drag and drop functionality to enhance the user experience and to simplify form creation.

Experience

Founder and Event Coordinator, Joaquin Miller Park Enduro

July 2021 - Present

- Organized charity mountain bike race to raise funds for the improvement of local mountain bike trails.
- Raised \$50,000 from registration fees, corporate sponsorships, and the City of Oakland.
- Formed partnerships with local nonprofits to educate attendees on responsible trail riding etiquette.
- Led 50+ volunteers on 4 trail work days before and after the event to optimize trail conditions and to minimize potential damage.
- Created an effective marketing plan leading to the event completely selling out all 150+ registrations within two hours.
- Developed an event website from scratch using HTML, CSS, and Javascript: jimpenduro.com.

Director at Large, Bicycle Trails Council of the East Bay

Sept 2021 - Present

Elected to be the first youth board member in the organization's 35-year history.

- Invited to speak on East Bay Regional Parks District Parks Advisory Council panel, preparing a presentation followed by a question and answer session from board commissioners and meeting participants.
- Efforts supported the creation of the Briones Pilot Program, a groundbreaking project to test the feasibility of different methods of improving mountain bike trail use and access.
- Coordinates with Joaquin Miller Park stakeholders for cooperation on park improvement projects.

Ambassador, Haas School of Business, University of California, Berkeley

Oct 2022 - May 2023

Chosen to be a Berkeley Business Academy for Youth (BBAY) ambassador for exemplifying leadership and the Berkeley Haas defining principle of "Beyond Yourself."

- Led school outreach programs in the East Bay, prepared and gave presentations to recruit students.
- Created online marketing plans that raised awareness about the program.

Awards

3rd Place, ByteCode 2 Hackathon

2022

Created an online tool for companies to reduce their vulnerability to phishing scams in 24 hours.

- Coded a system that could send out dummy phishing emails to employees in bulk. Fake emails redirect to an educational article with information about defending oneself from phishing to help prevent future security breaches.

2nd Place, XR EDU Challenge 2

2019

Built a virtual reality experience with Unity and C# in one day that simulates homelessness in an attempt to help the user develop empathy for homeless people.

- Designed a custom virtual urban environment using 3D modeling with Blender.
- Coded interactions between the user and virtual characters.
- Presented in front of a large live audience with several judges.