Francisco Lira

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EDUCATION

University of California, Merced   **Exp. Graduation:** December 2022
BS in Computer Science, and Engineering w/ Minor in Applied Mathematical Sciences

CODEPATH.org   August 2022 – December 2022
IOS Mobile Development Coding Bootcamp (Certification Issued at the end of the program)

ENGINEERING EXPERIENCE

Delaget, San Jose, CA (Remote)   Sept.2022–Present
Software Engineering Intern
- Used Figma to design the UI/UX of Delaget's query search tool which allows restaurant operators to create custom search API queries to retrieve information about their transaction histories and at the same time aid to find outliers, discovering theft, and point out inefficiencies in their business.
- Developed the query search tool using HTML, CSS, Node.js, JQuery, Semantic UI, and React.js while following and creating an efficient React architecture.
- Created input components that have operators which allow users to choose metrics and dynamically search through data retrieved by an API.

Inclusive Interaction Lab, University of California, Merced   May 2022–Present
Undergraduate Research Assistant
Project Title: *"Braille Keyboard: A Keyboard for Sighted, Low Vision, and Blind Mobile Users"*
- Supervised by Ahmed Sabbir Arif, Ph.D., and Gulnar Rakhmetulla , Ph.D.
- Used Figma to design the UI/UX design of a braille keyboard that allows blind mobile users to interact with mobile devices faster and more efficiently using Human-Computer Interaction fundamentals.
- Developed the keyboard using Android Studio, Java, and XML while following the MVP architecture pattern to allow efficiency in the data flow, increase code testability, and allow easier implementation of new features.
- Tested braille keyboard by creating 10 user studies that allowed the collection of data by analyzing speed and intuitive interaction.

Bay Area Rapid Transit (BART), San Jose/Merced, CA   Aug. 2021–Dec. 2021
Programmer, Operations Control Center Shift Log WorkBench
Tools Utilized: Visual Studio Code, HTML, CSS, JavaScript, Python, SQLite, Flask, Github
- Led a team of 4 engineering students for two sprints as scrum master.
- Led the development and design of the BART OCC workbench tool which allows BART OCC managers to improve the process of inputting, categorizing, condensing, extracting, and reporting traffic control information via query entry and search.
- Implemented the frontend visualization for BART's OCC tool using React.js and helped construct data flow between the backend SQL database to the frontend of the application tool.
- Presented the final product application to BART officials and at the annual Innovate to Grow conference at UC Merced with over 200+ engineering attendees and stakeholders.

PROJECTS

Twitter Clone IOS App *Tools Utilized:* XCode, Swift, SwiftUI, UIkit, Cocoa Touch, MVC, Twitter API
- Developed a Twitter clone application using the Twitter API, allowing users to log in and view their timeline tweets using network requests.
- Created a login flow that authenticates the current user with Twitter API.
- Created data flow between view controllers of the app while following the MVC framework.

Yelp Clone IOS App *Tools Utilized:* XCode, Swift, SwiftUI, UIkit, Cocoa Touch, MVC, Yelp API, Almofire
- Developed clone Yelp app with swift the Yelp Fusion API, and a Parse backend server hosted on Back4App.
- Created data flow between View controllers of the app while following the MVC framework.

ORGANIZATIONS AND LEADERSHIP

HackMerced at UC Merced Media & Marketing Officer   Apr. 2021–May 2022
- Created UI/UX designs using Figma for the HackMerced event and the event's official website.
- Created marketing strategies to advertise the HackMerced event for Spring 2022 using all social media and outreach resources.
- Developed and led Figma and Java workshops at Hack Merced.

Society of Hispanic Professional Engineers (SHPE) at UC Merced Internal Rep. Chair   Apr. 2020–May 2021
- Assisted the President and Vice President in internal affairs and managed all social media which helped boost the organization's image.
- Helped create and lead weekly professional building and technical workshops.
- The organization's social media presence increased from 450 followers to 600 followers during my time of service.