Francisco Lira

San Jose CA 95116 • 408.512.8232 • franciscolira408@gmail.com • **github.com/frankie-lira** • linkedin.com/in/lirafrancisco

EDUCATION

University of California, Merced Merced, California | Expected Graduation: December 2022
Bachelor of Science, Computer Science and Engineering **Cumulative GPA: 3.31**
Minor, Applied Mathematical Sciences

Relevant Coursework: Java, C/C++, Data Structures, Algorithms, Discrete Mathematics, Circuit Theory, Computer Org. & Assembly Lang, Renewable Energy Facts & Applications, Digital Image Processing, Human-Computer Interaction, Object-Oriented Programming.

ACCOMPLISHMENTS

Dean's Honors List – Achieved by having a GPA of 3.0 or above
Peninsula College Fund Scholarship ($12,000) – Competitive scholarship for first-generation college students.
Dream.US Scholarship ($29,000) – Competitive scholarship for first-generation college students.
DesignMerced Award 2020 – A UI and UX competition on designing an App.
Innovate 2 Grow Project Winner – Competition in which our Web App, Connecting Communities, won 1st place

TECHNICAL SKILLS

C language ● Java ● C ++ ● Swift (Basic Knowledge) ● GIT ● Python (Basic Knowledge) ● Terminal Commands ● Simulink ● Bilingual ● MATLAB ● Leadership ● HTML ● CSS ● JavaScript

ENGINEERING EXPERIENCE AND PROJECTS

Operations Control Center Shift Log WorkBench Bay Area Rapid Transit | San Jose, CA   Aug 2021-Dec 2021

Programmer |Tools Utilized: Visual Studio Code, HTML, CSS, JavaScript, Python, SQLite, Flask, Github
- A team of 4 developed a web application in which BART OCC Managers (User) are able to improve the process of inputting, categorizing, condensing, extracting, and reporting traffic control information.
- The app has different functionalities that allow the user to input shift logs detailing maintenance work, police activity, delays, equipment abnormalities, and other events impacting the regular operation of the system.

Undergraduate Research Assistant | Merced, CA   Jun2021- Aug 2021
Pervasive Autonomous Networked Systems Lab
University of California, Merced
Project Title: "*Vibration-based Indoor Occupant Gait Monitoring with Robot Vacuum Cleaners*"
Funding Source: Summer Undergraduate Research Fellowship (SURF) @ UC Merced
- The goal is to create a vibration-based gait monitoring system on the mobile platform of an in-home vacuum cleaner and collect data using structural vibration-based methods.
- Created a visualization platform or a website using HTML, CSS, and JavaScript which will display the data of the ongoing research project in real-time and help users and research fellows understand the project.

Isolation Project | Merced, CA   Jan 2021- May 2021
Media & Coding Officer | Languages and Tools Utilized: HTML, CSS, JavaScript, Jotform API, VS Code IDE, Git.
- A group of 4 students and I are developing a Web App that helps increase the well-being of later-in-life women in Merced County and helps aid community connections.
- Helped lead the coding team in creating the web application with HTML, CSS, JavaScript, and Git.

ORGANIZATIONS AND LEADERSHIP

HackMerced Media & Marketing Officer | Merced, CA   April 2021 – Present
- As the Media Officer, I create UI and UX designs for the event and website. I'm also in charge of creating marketing strategies to advertise the HackMerced Event for Fall 2021.

Association for Computing Machinery at UC Merced (ACM) Merced, CA   September 2019 – Present
- As a member of ACM, I participate in coding projects such as Hackathons and acquire skills such as using git and creating my own personal projects. Also contributed with coding help and mentoring peers.

Society of Hispanic Professional Engineers (SHPE) Internal Rep. Chair | Merced, CA   April 2020-May 2021
- Assist the President and Vice President in internal affairs. Communicated with the chapter on any changes to the school policies and was in charge of all social media and the image of the organization.

Google's Hispanic Student Leadership Community Summit 2019 Google Headquarters, Sunnyvale, CA
- Attended The Hispanic Student Leadership Community Summit in Google's headquarters in Sunnyvale. CA. It is a summit that was created as an effort to bring Latinx leaders together to share innovative and creative best practices with one another, as well as to collaborate with Google's Latinx leadership to benefit my university