

Rodolfo Higuera

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Education

BACHELOR OF SCIENCE | MAY 2021 | UNIVERSITY OF CALIFORNIA, MERCED

- Major: Computer Science and Engineering
- Related coursework: Software Engineering, Computer Networks, Database Systems, Algorithm Design and Analysis

Experience

TEAM COORDINATOR/FULL STACK DEVELOPER | UCM - CAPSTONE | SEP – DEC 2020

- Created a business management application for Bay Area Rapid Transit to help consolidate information and provide tools for managers to analyze behavior and service disruptions
- Took lead in becoming the team coordinator and kept constant communication with mentors, conducted weekly meetings / progress check-ups with BART project managers, and provided consistent updates of achieved milestones
- Created a backend API using Node JS, Express, and SQLite to handle data requests that interfaces with the React frontend web application

STUDENT RESEARCHER | CAHSI | JULY-OCT 2020

- Researched NASA's Swarmathon Competition and created a test environment using NetLogo Simulations to study macro and micro level effects of implemented behaviors
- Developed and tested several implemented collision avoidance strategies for swarms of agents tasked with resource collection
- Summarized all research into a poster and presented findings at the GMiS 2020 Conference Poster Competition

IT TECHNICIAN | LASHON ACADEMY | APRIL – DEC 2021

- Maintained and managed an inventory of over 600 devices through Google Admin Console and Azure Active Directory mobile device management platforms
- Handled support tickets by using effective, friendly communication to ask questions, diagnose the problem, identify potential solutions, and elevate the issue if needed.
- Listened to goals and desires of school administration as a basis to research and deploy useful software for the school

Volunteer Experience

VOLUNTEER CS CLASS INSTRUCTOR | SEPT – DEC 2021

- Assisted in the instruction of a 7th/8th grade optional computer science class for students using Google's CS First Curriculum
- Helped students understand fundamental concepts in computer science such as recursion, loops, and control flows
- Created a welcoming environment for students to test their curiosity of computer science to hopefully inspire the next generation of software developers and programmers.