Emmanuel Gallegos

Computer Science Senior

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Education

2017-2019 **AS Mathematics, AST Computer Science**, *Chabot College*, Hayward, CA.

2019-2021 **B.Sc Computer Science**, *CSU East Bay*, Hayward, CA, **Expected Graduation**: December, 2020.

Work Experience

2019-Current **Coding Instructor**, *KidzToPros*, SF Bay Area.

2018–Current **Peer Tutor - CS and Math**, *Private Practice (Paid)*, Chabot College, CSU East Bay.

2016-2017 **Brain Coach**, *Marbles, the Brain Store*, Fisherman's Wharf, San Francisco.

Current Projects

Covid ID I'm working with Professor Lynne Grewe and a team of graduate students to build a mobile application to identify areas and individuals at high risk of spreading viral contagions. Within the larger group, my sub-team is focused on a module that uses infrared thermography and deep learning to identify individuals that pose a high risk of fever, a common symptom of Covid-19. I'm also a lead on the infrastructure team as I have prior experience using Google Firestore as a data storage solution for Android applications.

Micromouse I am coordinating and participating in an engineering competition among various West Coast university IEEE chapters which will be hosted at our campus (CSU East Bay) once Covid-19 allows. The competition involves building and programming an autonomous robot to navigate an optimal route through a modular maze in the fastest time possible. For my team, I've personally solved the algorithmic problem of mapping and solving the maze, and am now doing as much as I can at home to work on the actual robot using an Arduino kit.

Programming

Languages C++, Java, Python, Bash, JavaScript, HTML/CSS, LISP, Prolog, MIPS

OS's Windows, Linux (Ubuntu)

Tools TensorFlow, Anaconda, Jupyter, Git/GitHub, Android Studio, React, SSH, Mathematica

AI Courses Artificial Intelligence (Spring 2020, *A*), Machine Learning (Fall 2020), Computer Vision (Fall 2020)

Achievements in IEEE

Xtreme I participated and placed in IEEE's Xtreme 24-hour hackathon. Our team, comprised of three undergraduate students, placed fifth in the West Coast region, which included teams from schools across California, Oregon, Washington, and Montana, and placed thirteenth in the country. We competed with students at both the undergraduate and graduate levels and ranked in the 95th percentile internationally.

Other Knowledge Areas

Languages English—Advanced, Spanish—Intermediate

Personal Creative Writing (Sci-Fi/Fantasy), Producing Digital Music with Ableton Live (Software), Comfortable on Saxophone, Clarinet, and Piano