Jose Luis Santiago

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SUMMARY & SKILLS

Web Development Fellow with a Bachelor of Science in Computer Engineering looking to leverage my degree, passion and competitive nature to break into the tech industry.

Tech: C, C++, Python, Git, JavaScript, CSS, HTML
Languages: Spanish (Fluent)

PROJECTS

IoT Wildfire Alarm System - Undergraduate Capstone, UCSC   Jan 2021 - Jun 2021
- *Description:* Collaborated in a 6-person team to design an IoT Wildfire Alarm System. Built a prototype that uses sensors integrated with a WiFi and 5G enabled microcontroller. Analyzed parameters indicative of wildfire risk. These parameters included CO_2 levels (0-5000ppm), humidity (20-80%RH), and temperature (0-50°C)
- *Languages/Frameworks/PM Tools:* C++, ESP32, Arduino, Arduino Rain Drop Sensor, TI HDC2021 Temp Sensor, NDIR CO_2 Sensor, Solar Panel/Voltage Regulator 3.5W

Bio-Inspired Locomotion: Penguin Wings   Jan 2021 - Mar 2021
- *Description:* Researched penguin swimming kinematics to model the wing flapping motion. Simulated penguin wing motion to study correlation between wing size, lift, and drag forces.
- *Languages/Frameworks/PM Tools:* MATLAB

EDUCATION

University of California, Santa Cruz, Santa Cruz, CA   Sep 2016 – Jun 2021
B.S., Computer Engineering

THE KNOWLEDGE HOUSE, Bronx, NY   Sep 2023 – Sep 2024
Innovation Fellowship - [Web Development]
- Build HTML, CSS, JavaScript, UX/UI design skills by participating in a project-based, software engineering curriculum with 400+ hours of technical instruction and professional development
- Contribute to MVP deployment for capstone project by executing user research and agile methodology principles in addressing market opportunities with creative technical solutions using project management, communication and presentation tools like Trello, Jira, Slack and Google Suite

EXPERIENCE

E-commerce Website Prototype - Arrow   Jul 2022 - Aug 2022
- *Description:* E-commerce website aiming to be the Amazon of heavy machinery. Used web scraping in python to collect data for potential listings. Django served as the framework for the website. Implemented Stripe API for payment processing.
- *Languages/Frameworks/PM Tools:* Django, HTML, CSS, JavaScript, Python, MySQL