Jose Santiago

Software Engineer

Recent college graduate with computer engineering degree seeking entry level software engineering position

jlsantia21@gmail.com
3105933780
Los Angeles, CA
santi-jose.github.io/website/portfolio.html
linkedin.com/in/j-santi
github.com/santi-jose

EDUCATION

Bachelor of Science in Computer Engineering
University of California, Santa Cruz

09/2016 - 06/2021 *Santa Cruz, CA*

Dean's Honor Roll

- Spring 2017
- Winter 2021

edX
Harvard

01/2023 - Present

Courses

- CS50G: Introduction to Game Development

WORK EXPERIENCE

Web Development Intern
Arrow

07/2022 - 08/2022 *Manhattan Beach, CA*

Digital tools for heavy equipment.

Achievements/Tasks

- Designed and implemented a web scraping solution in python for e-commerce platform
- Stored data from web scraping into MySQL database for use in e-commerce website
- Worked in a team of three to design e-commerce platform using Django and MySQL

Peer Adviser
Jack Baskin School of Engineering

09/2018 - 09/2021 *Santa Cruz, CA*

Achievements/Tasks

- Acted as first point of contact and communication for over 4,000 students at the advising office
- Advised over 1,000 students in their respective engineering majors by developing class schedules, providing coaching and support with coursework, and assisting students with selecting major and career pathways
- Managed and tracked confidential student data and records of student population of over 4,000 to determine student's progress and eligibility for graduation

SOFTWARE

C++ | C | Git | Python | HTML | SQL | MATLAB | CSS | Lua

ENGINEERING PROJECTS

Purgatory (2022 - Present)

- Made art assets for 2D Pixel Art RPG, Purgatory. Trees, succulent, grass tiles, dirt tiles, and a sprite sheet for the protagonist running animation
- Wrote GDScript code to make protagonist sprite run in Godot game engine

IoT Wildfire Alarm System (01/2021 - 06/2021)

- 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: CO2 levels (0-5000ppm), humidity (20-80%RH), and temperature (0-50**°C**)

Bio-Inspired Locomotion: Penguin Aquaflying Wings (01/2021 - 03/2021)

- Researched penguin swimming kinematics to model the flaping motion in MATLAB
- Simulated penguin wing motion with wings of different sizes (0.8 - 1.8 times the size of a Gentoo Penguin wing) to understand the correlation between wing size, lift and drag forces
- Concluded that wing size (0.8-1.8 times the size of a Gentoo wing) is positively correlated with lift. At larger sizes, the wing succumbs to mass and is unable to prove useful for locomotion

LANGUAGES

Engilsh
Full Professional Proficiency

Spanish
Full Professional Proficiency