Jose Eduardo Corona Espinoza

Education

Sep 2015 - Jun 2019

University of California, Irvine
B.S. in Computer Science 3.7 major GPA, 3.6 cumulative GPA
Minor in Management

Personal Projects

Jul 2016 - present

Linear Regression Implementation
• Implemented ordinary least squares regression analysis by constructing a Matrix class capable of performing Gaussian elimination, matrix arithmetic, and transpositions. Python, NumPy, SciPy.
• Used SciKit Learn to obtain sample data and compare results.

May 2017

Othello Artificial Intelligence Algorithm
• Developed a recursive, depth-first search algorithm and an evaluation function that determines the path with the most favorable outcome by performing a heuristic search of possible board states. C++, Python.
• Placed 3rd in a class tournament against 300+ classmates using Minimax search.

Dec 2016

UCI WebReg Calendar Scheduler
• Developed script that reads a text file with information of one's currently enrolled courses from UCI's WebReg system and schedules the meeting times for those courses in one's personal calendar by using the Google Calendar API. Python, Google Calendar API.

Experience

Jul 2017 - present

Developer
Plan a Trip
• Contribute to the development and design of the trip planning and scheduling algorithm that considers multiple factors such as the customers interests, length of trip and budget by implementing heuristic techniques and asymptotic analysis. Python, GitLab, Trello.

Sep 2016 - Jun 2017

Mentor & Tutor
California Alliance for Minority Participation
• Mentored 5+ minority and first-generation college students in the California Allegiance for Minority Program at UCI and helped them succeed academically by sharing my research strategies and study habits.
• Tutored 20+ students and improve their understanding concepts covered in several ICS courses covering Python, C++, Discrete Mathematics, by theorizing possible solutions and testing those theories while assessing their understanding.

Mar 2017 - Jun 2017

Student Researcher
UC Irvine School of Medicine
• Communicate with vendors, researchers and other departments to ensure the lab has all necessary equipment to operate and maintain up to date lab website.

Sep 2016 - Dec 2016

Tutor
ICS Lab Tutor
• Worked as a lab tutor helping 35+ students better understand the concepts covered in ICS 32 by theorizing possible solutions and testing those theories while assessing their understanding.

Sep 2015

Oral Presenter
University of California, Irvine
• Educated 300+ students on time organization tools and techniques I employ to stay on top of schoolwork and other obligations by presenting my tools and strategies during an Undecided/Undeclared course lecture.

Mar 2015 - Jun 2015

Volunteer
Temecula Creator Space
• Educated 30+ customers on the resources available to them at the creator space by learning what they wish to accomplish and explaining how our resources can help them achieve their goals.

Personal Info

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jecoronaespinoza@gmail.com

GitHub
github.com/jecorona97

LinkedIn
linkedin.com/in/coronaje

Programming Languages

Python

C++

SQL

x86 Assembly

R

JavaScript

Software

CLion

PyCharm

Visual Studio

GitHub

Courses

Data Structure Implementation & Analysis

Machine Learning and Data Mining

Principles in System Design

Intro to Artificial Intelligence

Introduction to Data Management

Discrete Mathematics & Statistics

Economics

Languages

Spanish