

ESAI MORALES

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EDUCATION

Santa Clara University

Santa Clara, CA

M.S. in Computer Science and Engineering

June 2019

Relevant Coursework: *Pattern Recognition & Data Mining, Energy Efficient Computing, Databases, Information Security Management*

GPA: 3.546

B.S. in Computer Science and Engineering

June 2018

Relevant Coursework: *Machine Learning, Web Information Management, Web Usability, Software Engineering, Computer Networks*

EXPERIENCE

Frugal Innovation Hub, Santa Clara University

Santa Clara, CA

Teaching Assistant

September 2018 - Present

- Revamp, update, and manage the program's webpage
- Assist with the coordination, development, and deployment of student-built humanitarian software, locally and internationally

U.S. Bank

Portland, OR

Software Engineering Intern

June - September 2017

- Designed data model for U.S. Bank Lockbox, a nation-wide remittance processing service
- Elevated system administrators' productivity by creating an internal web application to organize server and workstation metadata of all US regions in the Lockbox network; implemented with C#, ASP.NET, and SQL Server

Center for Professional Development, Santa Clara University

Santa Clara, CA

Part-time Website Technician

June 2016 - June 2017

- Built SCU web content on T4 platform and maintained existing material
- Managed all logistical elements of multiple professional development sessions
- Designed and implemented prototype for a liturgical music planning tool using Python, Flask, and MySQL

Darshan2Divinity

Santa Clara, CA

Web Developer Intern

January 2016 - June 2017

- Improved website rendering speeds by converting an image-based site to HTML/CSS
- Reduced page data size by 15% and server requests by 13%

Santa Clara University

Santa Clara, CA

Student Research Assistant

June 2016 - January 2017

- Wrote scripts to generate Tweet propagation graphs and locate influential nodes and connections using the Twitter API

PROJECTS

News Breaking

Senior Design 2018

A fake news detection and fact summarization tool. Built the complete front-end interface for a responsive web application which scrapes news sites for articles, compares them against each other, and predicts their validity. Used HTML/CSS/JavaScript, Flask, and Amazon DynamoDB.

Course Equivalence Tracking Application

Winter 2018

Created a web application to track SCU advisors' decisions on which courses are equivalent to those from other universities. Implemented using an HTML/CSS/JavaScript front end and a PHP/MySQL back end.

Movie Recommendation System

Spring 2017

A movie rating predictor using a 200-user test dataset with 1000 movie ratings each; implemented collaborative filtering and ensemble algorithms in Python; placed in the 90th percentile class-wide.

SKILLS

Proficient

Python, C++, SQL, HTML/CSS

Experienced

Java, C, C#.NET, JavaScript/jQuery

Technologies

Git, Linux/UNIX, MySQL, Flask, Scikit-Learn, OpenGL

Languages

Fluent in English & Spanish

LEADERSHIP

Mariachi de Santa Clara

Chair & Lead Guitarist

January 2016 - June 2018