

ESAI MORALES

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EDUCATION

Santa Clara University

Santa Clara, CA

M.S. in Software Engineering

June 2019

Coursework: *Database Systems, Software Process Management, Software Ethics*

B.S. in Computer Science and Engineering, Music Minor

June 2018

GPA: 3.202

Coursework: *Machine Learning, Web Information Management, Web Usability, Software Engineering, Compilers, Computer Architecture, Operating Systems, Computer Networks, Theory of Algorithms, Data Structures*

EXPERIENCE

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 administration's 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.

Santa Clara University, CPD

Santa Clara, CA

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. Created prototype for a liturgical music planning tool using Python, a Flask micro framework, and MySQL.

Darshan2Divinity

Santa Clara, CA

Web Developer

January 2016 - June 2017

Assisted a local non-profit; 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 Python scripts that collect, sort, and map Twitter data to generate tweet propagation graphs and locate influential nodes and connections using the Twitter API.

PROJECTS

Movie Recommendation System

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

Spam Classification

Implemented a Machine Learning model using Logistic Regression and preprocessing techniques to detect spam email; achieved 95% accuracy.

Course Equivalence Tracking Application

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

iMessaging Application

Built Android application to send/receive iMessages; implemented message forwarding through AppleScripts and Python; Flask web server; HTTP & Firebase for communication; Java, XML, SQLite.

SKILLS

Proficient

Python, Java, C++, SQL, HTML/CSS

Familiar

C, C#.NET, JavaScript, jQuery

Technologies

Git, Linux/UNIX, SQL Server, MySQL, Flask

Languages

Fluent in English & Spanish

LEADERSHIP

Mariachi de Santa Clara

Chair & Lead Guitarist

January 2016 - Present

Cristo Rey San Jose High School

Math Tutor

September - December 2016