

# ESAI MORALES

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## EDUCATION

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### Santa Clara University

Santa Clara, CA

#### M.S. in Computer Science and Engineering

June 2019

Coursework: *Pattern Recognition & Data Mining, Advanced Algorithms, Energy Efficient Computing, Database Systems*

#### B.S. in Computer Science and Engineering

June 2018

GPA: 3.241

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

## EXPERIENCE

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### 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

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

### Darshan2Divinity

Santa Clara, CA

*Web Developer Intern*

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

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### 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 an HTML/CSS/JavaScript front end and a PHP/MySQL back end.

### News Breaking; Fake News Detection & Fact Summarization

Built a 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, Jinja2 Templating

## SKILLS

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### Proficient

Python, C++, SQL, HTML/CSS

### Familiar

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

### Technologies

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

### Languages

Fluent in English & Spanish

## LEADERSHIP

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### Mariachi de Santa Clara

*Chair & Lead Guitarist*

January 2016 - June 2018

### Cristo Rey San Jose High School

*Math Tutor*

September - December 2016