**Ivan Sepulveda**

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**EDUCATION**

**University of San Francisco (USF), San Francisco, CA**

B.S. in Physics, Minors: Computer Science & Engineering-Physics Graduated August 2019

**EXPERIENCE**

**Portfolio Risk Analyst – Mechanics Bank/CRB Auto, Irvine, CA**

*Risk Management & Analytics* August 2019 – Present

* Developed ongoing analysis of servicing strategies based on portfolio trends and risk
* Producing and analyzing risk, operational, demographic and other reports as necessary

**Software Engineering Intern– The Dopple, Remote**

*Software Development & Analytics* May 2019 – Present

* Assisting on the design and implementation of new and existing features for our unique e-commerce platform in areas including operations to business intelligence
* Integrating and building data queries provided by our data scientists into our platform

**Rideshare Modeling: Research Assistant – USF School of Management, San Francisco, CA**

*Professors Shivani Shukla & William Riggs* April 2019 – August 2019

* Used rideshare and public transit data to build a model of Bay Area Commuting
* Used stochastic processes to seek parameters that minimized traffic congestion while maintaining consumer-driver economic equilibrium

**Software Development / Data Science Consultant – Prometheus Solutions, Irvine, CA**

*Client: L-Egant Solutions, LLC* October 2019 – May 2020

* Developing software tools providing real-time video capture/streaming
* Generating video data transformation utilities (i.e. statistical representations)
* Deriving methods to analyze, compile, classify, and copare, raw image data

**Computational Physics: Research Assistant – USF Physics Department, San Francisco, CA**

*Professor Milka Nikolic* May 2017 – August 2019

* Wrote simulation of electrons propagating through Argon plasma in various conditions.
* Utilized results to obtain ideal plasma etching parameters.

*Professor Seth Foreman*  May 2016 – December 2016

* Wrote simulation of a femtosecond laser releasing photon pulses towards sharp metal alloy tip, altering parameters such as temperature, alloy composition and pulse length.

**ACADEMIC & PERSONAL PROJECTS**

**When do stocks beat the S&P?** April 2019

* Used Logistic Regression, KNN, & SVM methods to evaluate securities and determine if said security’s percent increase surpassed the S&P 500’s for the same time frame

**German Credit Risk Model** March 2019

* Built a credit risk scorecard (set of probability values) based on the sample data provided

**Retail-Fashion Stock Correlation Script** September 2018

* Developed a methodology to compare percent changes in social media presence with percent changes in the corresponding retailer’s stock price.
* Integrated Twitter/Instagram/AlphaVantage APIs to obtain social media and stock price data

**Facial Recognition Algorithm** December 2016

* Wrote and trained a facial recognition model with 70% accuracy using PCA & SVM

**SKILLS**

* Python, SQL, R, Java, Excel, Java, HTML, CSS, & NLP
* Fluent in Spanish. Elementary proficiency in French.