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OBJECTIVE

Obtain an internship or research position where I can apply and develop my quantitative analysis skills, preferably in a context where I am writing code to analyze significant sets of financial data.

EDUCATION

University of San Francisco (USF), San Francisco, CA
B.S. in Physics, Minors: Engineering-Physics & Computer Science — Expected May. 2019

RELEVANT EXPERIENCE

Research Assistant – USF Physics Department, San Francisco, CA
Professor Milka Nikolic — May 2017 – Present

- Wrote a Monte-Carlo Python script that models electrons propagating through Argon plasma, tracking their position, energy, and collisions.
- Utilize information gathered to obtain ideal plasma etching parameters.

Professor Seth Foreman — May 2016 – December 2016

- Used COMSOL Multiphysics to model simulation of a femtosecond laser releasing pulses of light at a sharp metal alloy tip.
- Experimented with parameters such as heat, alloy composition and pulse length.

PERSONAL AND ACADEMIC PROJECTS

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
- Employed efficient use of Python API's and libraries to obtain social media and stock price figures dating as far back as necessary

Instant Checkout Python Script — August 2017

- Wrote a script allowing a user to add an item to their cart based on keywords and preferences.
- Integrated countdown feature that allowed the program to run as soon as merchandise was publically available.

Upper Division Physics Lab – USF — Fall 2016

- Conducted experiments on numerous topics, including CD data storage, Franck-Hertz experiment, gamma ray spectroscopy, X-ray diffraction, Optical spectrometry, Blackbody radiation, Interferometry and Fourier transform spectroscopy.
- Performed data analysis using Origin including but not limited to fitting data points and Fourier Transforms, compiling results into detailed lab reports

Facial Recognition – Computation Physics I Final Project — Fall 2016

- Trained an algorithm to execute facial recognition with approximately 70% accuracy using machine learning and computer vision.

SKILLS

- Fluent in Spanish, Beginner Proficiency in French
- Proficient in Python, LaTeX, Java, HTML and CSS

AWARDS

- Shane Battier Take Charge Scholarship Recipient

REFERENCES

- Newell Flemming – newell@takechargefoundation.org
- Milka Nikolic – mnikolic@usfca.edu