Noah Alex

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EDUCATION

University of Utah
B.S. in Mechanical Engineering, Minor in Quantitative Finance and Computer Science

Salt Lake City, UT
Class of May 2022

Honors
- 3.75 GPA, Phi Eta Sigma Honors Society, Dean's List
- 2020-2021 TA for undergraduate and masters-level Quantitative Finance courses
- 4-year Business Scholars Scholarship, Goff Scholarship, Lawrence and Janet Dee Academic Scholarship

Relevant projects
- Programmed an algorithm on a $100k paper trading account using Python APIs and both current and historic data to develop regression models and predict probability of stock movement

CODING SKILLSET

Programming:	Python, R, C, C++, HTML, CSS, MATLAB, GCODE, LabView
APIs / Packages:	dplyr, tidyr, ggplot2, plotly, Shiny, Pandas, Numpy, Alpaca, Alpha Vantage, TensorFlow, Matplotlib, Tkinter, Selenium, BeautifulSoup

PROFESSIONAL EXPERIENCE

Hamilton Miller Investments
Quantitative Analyst

Park City, UT
May 2020 – Present

- Built 2 custom $3T market cap stock indexes with a coinciding automated valuation and performance analysis program built from scratch in Python that guided cloud investment decisions
- Coded a custom LinkedIn data scraper for use in building the business' customer base

Additive Manufacturing Labs – University of Utah
Machine Learning Researcher

Salt Lake City, UT
Oct 2019 – May 2020

- Wrote a 6-page research proposal and successfully received $1200 in funding for Spring 2020 to complete research on the integration of machine learning and microrobotics in health care
- Utilized Google's TensorFlow machine learning package for use throughout the lab and for modeling the movement of 4 different microswimmer designs, which informed future research

Goff Center for Strategic Leadership
Strategy Fellow

Salt Lake City, UT
Aug 2019 – Apr 2020

- Developed strategic recommendations for organizations such as Vivint, Enso Rings, Warrior Rising, State of Utah Human Resources, Wild Utah, and the Mirador Basin Project
- Designed a custom software suite to perform conjoint survey analysis, resulting in a strategic recommendation to the State of Utah of the top 5 employment benefits impacting applications
- Utilized zip code data from the Census Bureau to inform targeted marketing decisions

ACTIVITIES

Tau Beta Pi Engineering Society
Treasurer

Salt Lake City, UT
Sep 2019 – Present

- Selected to participate in an engineering networking and career club due to being top 12% of class
- Recruiting, networking, and guiding monetary decisions for the region