ALDERIK VAN DER HEYDE

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EDUCATION

Middlebury College, Middlebury, VT — Winter 2022
Candidate for Bachelor of Arts – Interdisciplinary Computer Science Major with Data Science
Cumulative GPA: 3.7; ACT: 33
Awards: Dean's List, College Scholar, NESCAC All-Academic Team, AP Scholar, US Lacrosse Bob Scott Award
- Relevant Coursework: Intro Data Science, Linear Algebra, Stats, Computer Architecture, Algorithms, Data Structures
- Varsity Athlete on Lacrosse team; 25 hours/week commitment
- Technical Skills: Proficient in Python (Jupyter, Keras, Tensorflow, Pandas, NumPy), R, Excel, SQL, Git
- Website: avanderheyde.github.io

DIS Study Abroad, Copenhagen, Denmark — Fall 2019
Concentration in Finance & Computer Science
- Relevant Coursework: Artificial Intelligence, Neural Networks, Big Data, and International Financial Management
- Data Science Projects: Flight Delays – EDA & Predictive Model, NFL Big Data Kaggle Competition

EXPERIENCE

Wells Fargo, Remote — Summer 2021
Data Science Intern
- Conducted unsupervised machine learning to cluster similar issues to create a reference for remediation of new issues
- Used natural language processing techniques to calculate similarity scores of inputs to provide feedback on the input
- Developed an enhanced search tool for finding desired documents in corpus based on keyword matching

Qsemble Capital Management, New York, NY — Fall 2020
Quantitative Research & Data Science Intern
- Conducted exploratory data analysis, using matplotlib and seaborn, on large data sets relevant to alpha factor research
- Created and back tested alpha factors using Pandas and NumPy to replicate results of academic research
- Integrated alpha factors to trading universe and calendar in order to be deployable in predicting stock returns

Undergraduate Research, San Diego, CA — Summer 2020
Assistant
- Constructed multiple machine-learning models aimed at identifying structural genetic variants
- Adapted new variant identification features from literature to create images of genetic reads for classification
- Improved accuracy by tuning hyperparameters, stacking models, plotting learning curves, using k-folds cross validation

CoastEdge Partners, San Diego, CA — Summer 2019
Investment & Operations Intern
- Advanced company's mission of helping families and institutions confidently navigate their financial journey
- Facilitated the meticulous construction and filing of essential documentation relevant to operations

Personal Project, San Diego, CA — Summer 2019
Financial Quantitative Research
- Developed my own systematic trading algorithm that utilizes alpha factors from academic papers and personal research
- Used python for individual alpha factor discovery and data analysis of the factors' strength of signal
- Back tested algorithm using historical market data through Quantopian's API

VOLUNTEERING

Carlsbad Classic Lacrosse Tournament, San Diego, CA — Winter 2015
Founder/Coordinator
- Hosted a lacrosse tournament with 100+ participants that raised over $2000 for Autism Research Institute of San Diego