ALDERIK VAN DER HEYDE

14 OLD CHAPEL RD BOX 4586 • MIDDLEBURY, VT 05753 • (858) 342.2675 • AVANDERHEYDE@MIDDLEBURY.EDU

EDUCATION

Middlebury College, Middlebury, VT   February 2022
Candidate for Bachelor of Arts – Interdisciplinary Computer Science Major with Data Science
Cumulative GPA: 3.63; 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, Statistics, Statistical Models of Stock Market
- Varsity Athlete on Lacrosse team; 25 hours/week commitment
- Technical Skills: Proficient in Python, R, Excel; Experienced in SQL, Java, MATLAB

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

Qsemble Capital Management, New York, NY   Fall 2020
Quantitative Finance & Data Science Intern
- Conducted exploratory data analysis, using matplotlib and seaborn, on datasets 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

Scientist.com (#9 on Inc. Magazine 500 fastest growing companies for 2018), San Diego, CA   Summer 2018
Finance & Accounting Intern
- Built financial valuation models specified by the CFO for the board to use to present to Venture Capital firms
- Recorded daily business transactions into NetSuite by analyzing and creating journal entries

VOLUNTEERING

Carlsbad Classic Lacrosse Tournament, San Diego, CA   Winter 2015
Founder/Coordinator
- Hosted a lacrosse tournament that raised over $2000 for Autism Research with 100+ participants
- Negotiated and booked venues, reserved referees, coordinated with the Autism Research Institute of San Diego