Data Engineer

Data Engineer - Valravn Capital
San Francisco, CA
Work Experience
Data Engineer
Valravn Capital - San Francisco, CA
November 2018 to Present
• Contributed to development of cloud-based quantiative modeling platform utilized by students in
the UC Berkeley Haas School of Business Masters in Financial Engineering program
• Responsible for designing and deploying systems that automate and streamline datagovernance,
operations and processes across multiple environments
• Developed ingestion pipelines and data analysis systems for use in developing algorithmic trading
models

Quantitative Researcher
Quantitative Modeling and Prediction of Cryptocurrencies - Durham, NC
January 2018 to May 2018
Researched various approaches used in predictive modeling for financial assets, including
autoregressive models, Bayesian regression and recurrent neural networks, and applied these
techniques to the cryptocurrency markets

Data Visualization Software Developer
Duke Basketball Data Visualization - Durham, NC
September 2017 to May 2018
Developed a web application that exploits SportVU motion-tracking data to compute advanced
shooting metrics of players and visualizes their performance on the court

Equity Trading Software Development Intern
Deutsche Bank - Cary, NC
June 2017 to August 2017
Designed and implemented a machine learning and natural language processing engine for use in
equity trading research
. Utilized engine in development of stock market sentiment analysis tool that would allow traders to
extract quantitative
insights from free-form text
. Presented a proof-of-concept of the tool to senior management to justify the value of machine
learning and deep analytics to the bank

Technical Pre-Sales Strategy Intern
Intel Corporation - Santa Clara, CA
May 2015 to December 2015
Produced quarterly data analysis report focused on competitive landscape of microprocessor
industry to be used by ~1K
sales employees for product positioning and worldwide customer communications
. Delivered biweekly reports to field sales employees highlighting Intel's competitive positioning for
entire client product
portfolio across a range of processing capabilities as measured by industry-standard benchmarks
. Extracted quantitative data insights to produce detailed proof points that influenced sales strategy
decisions

Behavioral Economics Research Assistant
Center for Advanced Hindsight - Durham, NC
August 2013 to May 2014

Researched behavioral economics under mentorship of renowned Duke Economics professor Dan Ariely and fellow Troy Campbell
. Designed experiments, surveyed participants and analyzed data for studies focused on the psychology of consumer purchasing habits

Projects
Neural Network and Classification Model Berkeley, CA
Artificial Intelligence Student August 2018
. Built neural network from scratch and used it to implement an image classifier as part of coursework in Artificial Intelligence
course at UC Berkeley

Education
Bachelor of Science in Computer Science
Duke University
August 2018
in Visiting Computer Science Student
University of California, Berkeley Berkeley, CA
Skills
DATA VISUALIZATION (Less than 1 year), VISUALIZATION (Less than 1 year), ASSEMBLY(Less than 1 year), AWS (Less than 1 year), C++ (Less than 1 year)
Additional Information
Relevant Skills
Programming languages: Python Java JavaScript SQL C C++ Go Assembly
Libraries/Framewoks: Pandas Keras spaCy NumPy D3 Django Flask Tensorflow Angular React Node

Technical Knowledge: Agile Development Git Machine Learning Data Visualization Relational Database Design AWS