NICHOLAS TRUONG

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EDUCATION

The University of Texas at Austin — Spring 2020

– Bachelor of Science, Computer Science Honors (Turing Scholars)
– Bachelor of Science, Mathematics
– Bachelor of Business Administration, Business Honors
– Overall GPA: 3.8

WORK EXPERIENCE

Coatue Management — June 2018 – August 2018

Data Science Intern, New York, NY

– Analyzed exhaust/alternative data to predict metrics strongly linked to company and industry performance
– Modeled key performance indicators that influence share price yielding profitable trades on surprise relative to consensus
– Created web-based user interface for tagging data, streamlining data validation and simplifying quality assurance

Building Wide Intelligence Lab — May 2017 – May 2018

Research Assistant, Austin, TX

– Implemented image-based object detection in C++ to help robots learn relative object locations
– Constructed algorithm to localize robot and detect room boundaries from 3D point-cloud data
– Developed "scavenger hunt" policy to optimally manage and execute given tasks

Pierce-Shimomura Lab — June 2012 – August 2013

Research Assistant, Austin, TX

– Propagated *C. Elegans* test subjects daily, ensuring health of subjects and removing contaminants
– Published "Magnetosensitive neurons mediate geomagnetic orientation in *Caenorhabditis Elegans*" to eLife journal
– Discovered neurological process responsible for geomagnetic sensation in animals

PROJECTS

Reinforcement Learning — August 2017 – December 2017

Personal project, Austin, TX

– Created a reinforcement learning framework that simplifies training process
– Implemented Q-approximation to identify optimal feature weights based on user-defined environments

Poker AI — June 2017 – August 2017

Personal project, Austin, TX

– Developed AI to competitively play Heads-Up No-Limit Texas Hold'em Poker
– Incorporated LSTM and standard feedforward neural networks to adapt playstyle based on game history
– Strategically discovered and exploited mannerisms in opponent playstyle in real time

LEADERSHIP EXPERIENCE AND ACTIVITIES

Undergraduate Computational Finance — August 2016 – Present

Director, Austin, TX

– Lead members to present trading strategies and pitch ideas for consideration in team portfolio
– Formulated trading algorithms to optimize a multiple portfolio of other algorithms
– Created reinforcement learning trading agent to identify latent features in time series data
– Analyze current market conditions and correspond biweekly status reports to the whole team

HONORS

– The University of Texas at Austin, University Honors — Fall 2016 – Fall 2018
– The University of North Texas, President's List — Fall 2014 – Spring 2016
– American Invitational Mathematics Examination, Certificate of Distinction — Fall 2012 – Spring 2015

ADDITIONAL INFORMATION

Skills: C, C++, Java, LaTeX, Python, R, Scala, exposure to Haskell, Javascript
Interests: Powerlifting (190/120/190kg), Piano, Heavy metal, Vim
Work Eligibility: Eligible to work in the U.S. with no restrictions