Nicholas Truong

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Education

The University of Texas at Austin — May 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
– Replicated precarious initial findings in a more robust, extensible framework
– Created web-based user interface for back-end processes, simplifying data validation and 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
– Uses 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 develop strategy based on game state

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 – Spring 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

Computer Skills: C, C++, Java, Python, R, Scala, exposure to Haskell, Javascript
Interests: Powerlifting (185/107.5/185kg), Piano, Philosophy
Work Eligibility: Eligible to work in the U.S. with no restrictions