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: 3.75

Research Experience

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

Center for Space Research — June 2014 – August 2014

Research Assistant, Austin, TX

- Selected from 200 applicants as 1 of 11 students to join the summer program
- Analyzed sea level changes to identify discrepancies between satellite readings for further calibration
- Presented results to active researchers at the Center for Space Research

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

Doomsday — 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

Pegasus — June 2017 – August 2017

Personal project, Austin, TX

- Developed AI to competitively play Heads-Up No-Limit Texas Holdem 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, exposure to Haskell, Scala, Javascript
Interests: Powerlifting (185/107.5/185kg), Piano, Philosophy
Work Eligibility: Eligible to work in the U.S. with no restrictions