Nicholas Truong

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EDUCATION

The University of Texas at Austin — Bachelor of Science, Computer Science, Turing Scholars (Honors) — May 2020
Bachelor of Business Administration, Business Honors
Bachelor of Science, Mathematics
Overall GPA: 3.75

RESEARCH EXPERIENCE

Building-Wide Intelligence Lab – *Research Assistant;* Austin, TX — May 2017 – Present
- 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
- Developing "scavenger hunt" policy to optimally manage and execute given tasks

Center for Space Research – *Research Assistant and Programmer;* Austin, TX — June 2014 – August 2014
- Selected from 200 applicants as 1 of 11 students to join the summer program
- Created UNIX shell scripts to analyze satellite data and monitor sea level changes in the Gulf of Mexico
- Analyzed data to identify discrepancies between satellite readings for further calibration
- Presented results to active researchers at the Center for Space Research

Pierce-Shimomura Lab – *Research Assistant;* Austin, TX — June 2012 – August 2013
- 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

Pegasus – *Personal project;* Austin, TX — Summer 2017
- 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

Tetris – *Class Project for C S 314H;* Austin, TX — October 2016
- Recreated classic 1984 game Tetris
- Designed and implemented genetic algorithm AI to maximize Tetris score

LEADERSHIP EXPERIENCE AND ACTIVITIES

Undergraduate Computational Finance – *Member, Director (Spring 2018 – Present)* — Fall 2016 – Present
- Formulated a trading algorithm to optimize multiple portfolio of other algorithms
- Designed and implemented simulated exchange for testing trading strategies
- Created reinforcement learning trading agent to identify latent features in time series
- Regularly present trading strategies and ideas to team for consideration in team portfolio
- Analyze current market conditions and correspond biweekly status reports to the whole team

FIRST Robotics Competition Team 2468 – *Programmer (Fall 2013 – Spring 2014)* — Fall 2012 – Spring 2014
- Developed drive and vision code that enabled robot to play a modified version of volleyball
- Constructed robot with 10 member team to successfully run ATX half-marathon
- Fostered and led 2 teams at local middle schools to 1st and 2nd place at Capitol BEST tournament

HONORS

- University of North Texas President's List — Fall 2014 – Spring 2016
- American Invitational Mathematics Examination – Certificate of Distinction — Fall 2012 – Spring 2015
- FIRST Robotics Competition – Regional Winners — Spring 2014

ADDITIONAL INFORMATION

Computer Skills: C, C++, Java, Python, exposure to Haskell, Scala, JavaScript
Interests: Powerlifting (170/107.25/185kg), Finance, Philosophy, Piano
Work Eligibility: Eligible to work in the U. S. with no restrictions