JIAN FAN

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EDUCATION

University of California, San Diego (UCSD)   **Jun 2020**
Bachelor of Science in Computer Science
· Courses: Mathematical Reasoning, Data Structure & OO Design, Multivariable Calculus
· Current GPA 3.78
· GRE 162(Verbal) + 170(Quantitative), AW 4.5

SKILLS

Proficient in Java, Python, C, C++, MATLAB, Octave, Unity and C#
Moderate in Adobe PR&AE, SQL, Office, HTML, JavaScript, CSS, Swift
Native in Mandarin, Fluent in English, Basic in Spanish
5D and received professional training in Go Game (Weiqi)

RESEARCHES AND PUBLICATIONS

Chinese Elite Program (or Yingcaijihua), NJU Astronomy Lab, NJU   **Jan 2015 – Feb 2016**
· Conducted research on planet motion to establish a simple model on gravitational force among a system of three or more planets and stars among a group of four.
· Acted as the representative to communicate research progress with professor each month.
· Led the long-term project among collaborators, communicated and organized observation activity at NJU astronomical observatory.

ACADEMIC AND TECHNOLOGICAL ACTIVITIES

Professor's Teaching & Researching Assistant, IAR Ivy League Summer Research Camp, Shanghai, China
                                                                                       July 15 – August 11, 2018
· Helped Professor Nathan Srebro from Toyota Technological Institute at Chicago teach high school students machine learning, discussed and tackled future difficulties of AI in Go Game together.
· Supervised and coached students finishing their AI algorithm and program of a board game Connect Four using Minimax Algorithm and Alpha-beta pruning.

Junior Counselor, Ross Mathematics Program, OSU, Columbus, OH USA   **June 12 – July 22, 2016**
· Guided 1st year students solve their problems, assisted the counselor by helping grade their works, encouraged those discouraged by the difficulty of course work.
· Attended advanced lectures of number theory, discussed unsolved problems like Riemann hypothesis and transcendental numbers with professors.

***FIRST* Stronghold Championship, Edward Jones Dome, St. Louis, MO USA**   **April, 2016**
· Member of the Blue Whales Team (Team 5839), cooperated with experts on robotics programming and robot assembly at the base in Nanjing.
· Recorded other teams' statistics during the match and acted as a volunteer to guide the audience and brought supplies to robot operators.
· Ambassador of technological communication with other teams to share experience of how each team made their robots work correctly and elegantly.

LEADERSHIP EXPERIENCES

College Life of a Programmer project, SD Hacks, San Diego, CA USA   **Oct 12 – Oct 14, 2018**
· Led a team of four to develop a 3D Unity life simulation game.
· Put forward the idea of developing the simulation game, wrote most of the scripts, designed the levels, maps, scenes and data.

Number Theory Club founder and leader, registered at Nanjing Foreign Language School   **Oct 2015 – Oct 2016**
· Founded Number Theory Club with 35 members to share understandings on Number Theory; Organized various activities including lectures, discussions and contests; Made research on alternative proofs of different theories.
· Together invited Daniel Shapiro, director of the Ross Mathematics Program to give a lecture for club members.

Director Assistant, One Meter Sunlight Volunteer Team, held by Nanjing Red Cross   **2014**
· Organized event for up to 400 high school students to help the elderly in Nanjing Hongri Elderly Care Home by providing performances and dining together and advertised the event among high schools.
· Assisted director of the volunteer team to do accounting and plan voluntary events.

INTERESTS

Hiking, climbing, Skiing, Electronic Competitive Sports