

Delon Shen

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EDUCATION

TEXAS A&M UNIVERSITY

B.S. IN COMPUTER SCIENCE AND PHYSICS

May 2022 | College Station, TX
Engineering Honors
Physics Honors
Cum. GPA: 4.0/4.0

CLEMENTS HIGH SCHOOL

June 2018 | Sugar Land, TX
Cum. GPA: 5.6/6.0
SAT Superscore - 1570/1600

RELEVANT COURSEWORK

GRADUATE

Graduate Quantum Mechanics
Graduate Methods of Theoretical Physics
Graduate Mathematical Logic

UNDERGRADUATE

Honors Computer Organization
Honors Linear Algebra
Honors Discrete Structures for Computing
Theory of Partial Differential Equations
Data Structures and Algorithms
Programming Languages
Competitive Programming

SKILLS

PROGRAMMING

C++ • Python • Pandas • scikit-learn • Keras •
XGBoost • Java • Mathematica • Latex • git

OPERATING SYSTEMS

Linux • Windows

EXPERIENCE

RICE UNIVERSITY AND MD ANDERSON CANCER CENTER

MACHINE LEARNING RESEARCH ASSISTANT

Feb 2017 - Aug 2018 | Houston, TX

- Applied Decision Tree among other Machine Learning methods to modeling cancer therapy
- Independently developed programs in Python(using Numpy, Pandas, Keras, XGBoost, and scikit-learn) and C++ to train and evaluate machine learning models
- Developed programs to visualize model performance
- Created presentation of results and machine learning theory
- Presented project to professors and other researchers

RICE UNIVERSITY

SUMMER RESEARCH ASSISTANT

June 2017 - Aug 2017 | Houston, TX

- Analyzed 4 years of particle physics data for Prof. Liang's research group.
- Created algorithm to remove background noise in data
- Developed programs to efficiently analyze high energy particle physics data with Python and C++
- Presented analyzed data for professors and graduate students

CLEMENTS HIGH SCHOOL BAND

SECTION LEADER AND MEMBER OF TOP WIND ENSEMBLE

PRIMARY INSTRUMENT: ALTO SAXOPHONE

Aug 2014 - June 2018 | Sugar Land, TX

- Planned and led rehearsal during Marching Band to teach marching technique and drills to 20+ students.
- Rehearsed solo repertoire and ensemble repertoire for 14+ hours a week
- Competed at the national level in both Marching Band and Concert Band
- Competed in individual and small ensemble competitions

AWARDS

- 1st Place in the Texas A&M Fall 2019 local programming contest
- 2nd Place in the Texas A&M Spring 2019 local programming contest
- 9th Place ACM ICPC Regional Competition
- Dean's Honor Roll
- National AP Scholar
- 1st Place in Area for Science Olympiad
- Area Band - Top 2% out of 400 Alto Saxophonist in Houston Area