

Grant Skaggs

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Education

May 2022 **University of Texas at Austin, Turing Scholar Honors Program**
B.S. Computer Science & B.S. Mathematics; **GPA: 3.97**

Work Experience

Present **Duolingo, Software Engineering Intern**

Summer 2019 **University of Texas at Austin, Undergraduate Research Assistant**

- Applied recurrent neural networks to the problem of cache data prefetching in modern computer architectures
- Working under Dr. Calvin Lin, developed and tuned a two-layer LSTM neural model using TensorFlow and Python to predict prefetched addresses

Mentorship

Fall 2020 **UT Computer Science Department, Pod Mentor**

- Will lead a small group of first year CS students in a weekly seminar to help build CS community and connect students to CS-specific resources

Summer 2019 **Austin Chinese Educational Services, Course Instructor**

- Led introductory Python and Scratch courses for elementary and middle school students; designed the course objectives and curriculum; taught daily lectures; helped students with their course projects

Projects

May 2020 **The Great Sand Dunes**, Physical simulation of sand particles to render photo-realistic Desert dunes and ripples using C++ and OpenGL

March 2020 **Texas Felon Disenfranchisement Enables Institutional Racism**, Rushi Shah, *The Daily Texan*

June 2019 **Synthesizing Database Programs for Schema Refactoring**, Yuepeng Wang, James Dong, Rushi Shah, Isil Dillig, *Programming Languages Design & Implementation (PLDI '19)*

Skills

Proficient Languages: C/C++, Java, Python, Git, Swift, Bash

CS Coursework: Algorithms, Data Structures, Operating Systems, Computer Architecture, Discrete Math, Computer Graphics, Competitive Programming, Research in Computer Architecture

Speaking Engagements

Dec. 2018 **Moderator**, *Tech & Politics Speaker Series*, Prof. Hovav Shacham on Election Security

Nov. 2018 **Speaker**, *Math Directed Reading Symposium*, “Gerrymandering Considered Harmful”

Apr. 2018 **Speaker**, *Turing Lightning Talks*, “Voting! For fun & profit.”

Feb. '18,'19 **Moderator**, *Great Conversations Gala*, Annette Strauss Institute For Civic Life