Grant Skaggs

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Site: grantskaggs.com

Education

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

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

June 2019 — **RayTracer**, *C++*
- Developed a ray-tracer in C++ to render 3-Dimensional scenes
- Implemented features: Polygonal meshes, 3D object rotation/distortion, recursive reflection and refractions, point and directional lighting, multithreading, variable material types, shadows, specular and diffuse shading

Dec 2018 — **Webcrawler**, *Java*
- Designed a Java application for web crawling, page indexing, and search
- Included a graphical user interface, page-ranking features, and a robust web query parser

Spring 2018 — **Plexus**, *Java*
- Designed and built a 2D side-scrolling PC game in Java
- Finished Top 15 at the BPA Nationals Software Engineering Team competition

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