

GRANT SKAGGS

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EDUCATION

University of Texas at Austin, B.S. Computer Science

Aug 2018 - May 2022

- Turing Scholars Honors Program.
 - Cumulative GPA: 3.95
 - CS Coursework: Operating Systems, Computer Architecture, Data Structures, Discrete Math, Competitive Programming, Research in Computer Architecture.
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EXPERIENCE

University of Texas at Austin, Undergraduate Research Assistant

Summer 2019

- 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.
- Tested our model using GPUs on **Google Cloud Platform**, demonstrating an 8% improvement over baseline as a result of my work.

Austin Chinese Educational Services, Course Instructor

Summer 2019

- Led introductory and intermediate **Python** programming courses.
 - Material included programming fundamentals, OOP, data structures, and algorithms.
 - Mentored high school and intermediate school students.
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PROJECTS

Ray-Tracer

June 2019

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

Web Crawler

Dec 2018

- Designed a **Java** application for web crawling, page indexing, and search.
- Implemented a robust **web query parsing** algorithm using abstract syntax trees.
- Included a graphical user interface and page-ranking features.

Plexus- An Adventure Role Playing Game

Summer 2018

- Designed and built a 2D side-scrolling PC game in **Java**.
 - Finished Top 15 at the **BPA Nationals** Software Engineering Team competition.
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SKILLS

- **Much Experience:** C++, Java, Python, C, Git.
 - **Some Experience:** TensorFlow, Scikit-Learn, Bash, Assembly, Verilog.
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HONORS / AWARDS

- National Merit Scholar
 - AIME Qualifier
 - Clear Lake HS Valedictorian
 - National AP Scholar
 - Science Olympiad Gold Medalist
 - Phi Beta Kappa Scholarship
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Work Eligibility: Eligible to work in the U.S. with no restrictions.