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Grant Skaggs

Education

May 2022 University of Texas at Austin, Turing Scholar Honors Program

B.S. Computer Science & Philosophy Minor; GPA: 3.96

Experience

Summer **Duolingo**, Software Engineering Intern

2020 • Completed an internship at a language-learning company with over 500 million active users

• Worked closely with product managers and engineers to implement a new feature to Duolingo's iPhone app

Summer University of Texas at Austin, Undergraduate Research Assistant

• Applied recurrent neural networks to cache data prefetching in modern computer architectures

Developed a two-layer LSTM neural model using TensorFlow and Python to prefetch memory addresses

Projects

Summer Pyxeled, Python

2021 • Applied machine learning fundamentals to transform normal photographs into aesthetic pixel art

• Implemented clustering alogorithms to preserve image features at lower resolutions

Summer RayTracer, C++

2020 • 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

Extra-curriculars

Spring 2021 Texas 4000 for Cancer, Equipment and Gear Manager

- Present • Coordinate training and logistics for a 4000 mile charity bike ride from Austin to Alaska

• Present vital equipment and gear information at weekly leadership and general team meetings

Fall 2020 - University of Texas Computer Science Department, Freshman Mentor

Present • Leading a small group of first year CS students in a weekly seminar to build CS community and connect students to CS-specific resources

Spring 2021 University of Texas Computer Science Department, Teaching Assistant

• Held office hours and graded programming assignments for an honors-level Computer Graphics course

• Advised students on a final research project focused on independent inquiry in the field

Summer Austin Chinese Educational Services, Course Instructor

2019 • 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

Skills

Proficient: C/C++, Java, Python, HTML, CSS

Familiar: Javascript, Swift, Kotlin, Git, Bash, React, Google Firebase, Unity, numpy, scikit-learn, pandas, Agile Development, Unit / Functional Testing

Honors / Awards

General Academics: National Merit Scholar, National AP Scholar, UT Austin Presidential Scholar, Phi Beta Kappa Scholarship, CLHS Valedictorian, National Honor Society President

Science / Technology: AIME Qualifier, Science Olympiad Gold Medalist, HackTX CDK Global Award, USACO Gold Ranking