

RONGHUI (BRUCE) MA

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Education

Texas A&M University, College Station, TX

Expected graduation in 2029 with *Bachelor of Science in Computer Engineering, GPA 4.0*

Relevant Coursework: Python Programming, C++ Programming

Technical Skills

- Java, Python, exposed to various other programming languages, game development, robotics

Project and Collaboration Experience

Aggies Invent Pantex

- Led efforts in a team robotic project development addressing a need statement for safe handling of high explosive materials for Pantex.
- Prototype is designed to handle about 3 times the weight of high explosive materials as the company typically transfers.
- Experienced real-world industry work and formed excellent prototyping and pitching skills. Earned best presentation award.

Aggie Quest

- Developed an app with a team aimed to monitor and improve students' mental health awareness by at least 100% by generating a task everyday that adjusts in difficulty depending on user performance.
- Built using Python algorithms and website development in a 24-hour hackathon. Tech stack: Python, HTML, CSS, Javascript, Flask.

Akinator

- Determines an item from asking user questions to a user. Uses binary search trees and traversals to eliminate certain branches of possibilities and arrive at an answer. Tech stack: Java.

Minesweeper

- Remake of Minesweeper. Applies Java graphics, 2D arrays, and flood fill algorithm to generate mines and control appropriate square tiles to open upon a user click. Tech stack: Java.

Work Experience

iCode: Intern

- Taught at a coding academy and instructed 12 courses with around 5 students each between ages of 5-13 STEM subjects such as block coding, Python, Ruby, game development with Unity, Construct 3, and robotics for 2 years.
- Developed exceptional teaching experience, communication, and problem solving skills by planning 2 lesson plans per week to convey computer and engineering related material while also making it as enjoyable as possible for students.

TAMU ThinkTank: Website Developer

- Assumed the role of backend developer for a project and competition focused university organization that processes 100 - 200 applications each semester.
- Served as a secondary team lead and communicated effectively with team members to fulfill tasks given.
- Gained knowledge of real-life work environments and expectations. Tech stack: Typescript.

Leadership Experience

- Boy Scouts of America (Patrol Leader)** - Enhanced team awareness, leadership abilities, disciplining skills, and organization skills by administering and coordinating events for campouts, volunteering work, and other planned activities.
- Aggies in Tech** - Business technology certificate program emphasizing leadership, professional development, industry affiliations, marketing, and academic rigor.

University Organizations

TAMU ThinkTank

Texas A&M Computing Society

Aggie Competitive Programming Club

Other Skills and Interests

Languages - English, Mandarin.

Interests - Game development, chess, cycling, and hiking.