YUQIAN CAO

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EDUCATION

Texas A&M University, College Station, Texas   *August 2021 – May 2025*
B.S. in Computer Science, Minor in Game Design & Development, Minor in Cybersecurity   GPA: 3.786
Relevant Courses: Data Structure and Algorithms, Computer Architecture, Computer Graphics, Parallel Computing

PROJECTS

Budget Lifeguard | Project Manager, Lead Programmer   *February 2023 – May 2023*
- Designed and implemented a full stack web app using **Vue**, **Python**, and **Flask** that scrapes the web for the cheapest items in the area
- Delegated teams to front-end and back-end and ensured progress using an **Agile** development workflow
- Employed a divide-and-conquer strategy to phase the project over 10 weeks to meet a delivery deadline

CarryOn | Hackathon Project, Lead Back-End Dev   *January 30, 2023*
- Learned **web scraping** and successfully incorporated it into a **Python** script within a 24-hour timeframe

Medicine Storage Simpler | Personal Project   *December 2022 – January 2023*
- Constructed an inventory tracking program for an acupuncture business to improve organization, reducing a manual 3-hour process into seconds
- Crafted an intuitive UI design for the frontend using **QT** framework in **C++**

Data Structure & Algorithm | School Projects   *August 2022 – December 2022*
- Built data structures within the **C++ STL** from scratch while optimizing the asymptotic runtime
- Applied the data structures learned to program efficient graph, tree and sorting algorithms

EXPERIENCE / ACTIVITIES

Student Research Assistant | Soft Interaction Lab at Texas A&M University   *March 2023 – Present*
- Developed **AR/VR** apps through **Unity** and **C#** for medical education used in local TAMU facilities
- Experienced reading other team members' code, including the interactions between scripts and Unity components

Aggie Coding Club | Project Officer   *November 2022 – Present*
- Supervised four teams through providing constructive feedback and ensuring a plan of action to meet the deadline
- Gained perspective in balancing the amount of supervision necessary while managing multiple project leads
- Acquired insight into the intricacies involved in effectively running a 400+ member student organization

IT Assistant | The Association of Former Students   *December 2021 – December 2022*
- Resolved customer issues, upgraded hardware and software; disassembled PCs and wiped hard drives
- Proactively maintained and repaired printers, projectors, Creston control processors and receivers

Computer Science for Girls | Founder & President   *November 2019 – May 2021*
- Stepped outside the comfort zone to enhance women representation in computer science as the 1st female-led CS club in school
- Overcame difficulties of virtual interactions using Zoom and Replit to collaboratively learn **Python**

LANGUAGES / SKILLS

- **Proficient in**: Java, C++, Git, Unity, Python
- **Familiar with**: Selenium, SQLite, C#, HTML, CSS, Javascript, Vue, Java Swing, QT, OpenGL
- **Exposed to**: Flask, REST API, React
- **Soft Skills**: code reading, collaboration, public speaking, customer service, leadership, Chinese, Japanese