

Jiayu (James) Wu

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[LinkedIn](#) · [Personal Website](#) · [Github](#)

EDUCATION

Texas A&M University (TAMU), College Station, TX (CSTAT)

Expected May 2023

- B.S. Computer Science | **GPA: 3.89** | **Major GPA: 4.0**

WORK EXPERIENCE

Full Stack Web Developer, TAMU Rural and Community Health Institute, CSTAT

May 2021 - Present

- Programmed the Front End of Peer Review web application for medicals in **React.js** and **Redux**
- Optimized form state management using React Final Form library
- Gained production-level experience with Git workflow, Docker and writing documentations

Computer Science Peer Teacher, TAMU Computer Science Department, CSTAT

Jan 2021 - Present

- Advanced CS students' understanding of C++, data structure & algorithms, and discrete math
- Enhanced debugging skill through reviewing students' code

TOEFL Exam Tutor, Hangzhou, China

Summer 2019

- Tutored weekly one-on-one TOEFL prep lesson
- Practiced communication skill in English and Chinese while tutoring

PROJECTS

Travel Expert(Full-Stack)

Jun 2021 - Jul 2021

- Developed a web app supplied with **real-time** flight data to solve flight scheduling problem
- Applied **DFS algorithm** for scheduling flight routes in proper order and implemented flight simulation between destinations in an interactive map
- Integrated **Passport.js** for user authentication and client-side, server-side validation.
- Used **Express-Sanitize** library to prevent SQL injection and Cross Site Scripting attack
- Built the app in **EJS**, **Node.js**, **Express**, and **MongoDB**. Deployed the app on **Heroku** cloud server

Tech Trivia(Front-End)

Apr 2021 - Jun 2021

- Tested users' programming knowledge and generated a review plan for better memorization
- Implemented **SuperMemo algorithm** to analyze user's memory forgetting rate
- Parsed **JSON** data from **QuizAPI(third party)** for Trivia questions production

Aggie Community Service Board(Full Stack)

Sept 2020 - Oct 2020

- Allowed companies to host volunteering events and provided platform for volunteers to register and check involvement
- Engineered the connection of **PHP** and **mySQL** database in the backend
- Utilized **Session** for maintaining user login status

COVID Survey Collector(Full Stack)

May 2021 - Jun 2021

- Collected users' COVID symptoms and generated **CRUD** functionalities for user survey
- Employed **MVC model** from yii2 framework
- Added Jumbotron, Navbar, Carousel **Bootstrap** features.

SKILLS

Computer Programming Languages: JavaScript, C++, Python, Java, PHP, R, mySQL, MongoDB, HTML, CSS, SCSS

Frameworks/Libraries: React.js, Redux, Express, Yii2, Flask, Django, Bootstrap, Pandas, BeautifulSoup, Swing

Other: Git, Docker, Chrome Dev Tool, LaTeX, Solidworks, Excel, Fluent English and Chinese

ORGANIZATIONS

Aggie Coding Club

Sept 2019 - Present

- Participated in weekly workshops hosted by a number of computer scientists on various computer science fields

Aggie Web Developer Club

Aug 2020 - Present

- Collaborated with club members on full-stack applications using Git and Slack

Robomaster Club

Feb 2020 - Aug 2020

- Worked on designing the robots competition arena using Solidworks

TAMU FUSD

Aug 2020 - Present

- Created an excel sheet to track balance of member dues as the Treasurer of the street dance club

WORK AUTHORIZATION

Curricular Practical Training, Optional Practical Training and CO-OP