Jiayu (James) Wu

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EDUCATION

Texas A&M University (TAMU) — College Station, TX (CSTAT)   Expected May 2023
- B.S. Computer Science, Minor in Statistics | **GPA: 3.89** | **Major GPA: 4.0**

SKILLS

Programming Language: JavaScript, Java, Python, C++, PHP, R, HTML, CSS(SASS)
Framework/Library: ReactJS, Redux, Bootstrap, ExpressJS, Django, Flask, Yii2, Swing
Database: MongoDB, mySQL, PostgreSQL
Tools: Git, AWS, Heroku, Docker, Chrome Dev Tool, LaTex, Excel, Fluent English and Chinese

WORK EXPERIENCE

Full Stack Web Developer — TAMU Rural and Community Health Institute   May 2021 - Present
- Programmed the Front End of Peer Review web application for medicals in **ReactJS** and **Redux**
- Optimized form state management by 80% using **React Final Form** library
- Designed data structure to organize redux store and used **React PDF** library to display data on browser in PDF

Computer Science Peer Teacher — TAMU Computer Science Department   Jan 2021 - Present
- Advanced CS students' understanding of C++, data structure & algorithms, and discrete math
- Adopted diverse teaching methods including ipad sketching, remote computer control, and resource sharing
- Enhanced debugging skill through reviewing students' code

TOEFL Exam Tutor — Hangzhou, China   Jun 2019 - July 2019
- Tutored weekly one-on-one and group TOEFL prep lesson covering reading, listening, speaking, and writing
- Boosted communication skill in English and Chinese while tutoring

PROJECTS

Travel Expert — A full stack web app helps to solve flight scheduling problem   Jun 2021 - Jul 2021
- Browsed flights over 50+ countries and performed **DFS algorithm** to merge flight tickets in requested order. Implemented flight simulation between destinations in an interactive map provided by **mapbox API**
- 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
- Developed in **EJS**, **Node.js, Express**, and **MongoDB**. Deployed final product on **Heroku** cloud server

Hiphop Flea Market — A full stack eCommerce web application   Apr 2021 - Jun 2021
- Built a **SPA** with interactive UI using ReactJS, **React router**, React Bootstrap, and managed state with **Redux**
- Developed highly extensible **REST APIs** by implementing Django-style routing, ORM, authentication and admin
- Implemented backend system interacted with PostgreSQL using Django Framework
- Built a continuous **CI/CD pipeline** integrated with Github, Docker, Jenkins, and **AWS** Services

COVID Survey Collector — A full stack web app collects users' COVID symptoms   May 2021 - Jun 2021
- Generated **CRUD** functionalities for user survey
- Employed **MVC model** from yii2 framework
- Added Jumbotron, Navbar, Carousel **Bootstrap** features.

Aggie Community Service Board — A full stack web app manages volunteering events   Sept 2020 - Oct 2020
- Engineered the connection of **PHP** and **mySQL** database in the backend
- Utilized **Session** for maintaining user login status
- Deployed the final product on **Heroku**

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

WORK AUTHORIZATION

Curricular Practical Training, Optional Practical Training and CO-OP