

Jiayu (James) Wu

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

EDUCATION

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

SKILLS

Programming Language: JavaScript(NodeJS), Java, Python, C++, PHP, R, HTML, CSS(SASS)

Database: MongoDB, mySQL, PostgreSQL, MS SQL, Mongoose, Sequelize

Framework/Library: ReactJS, Redux, Bootstrap, ExpressJS, Django, Flask, Yii2, Swing

Tools: Git, AWS, Heroku, Docker, Jenkins, Chrome Dev Tool, LaTex, Excel

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 100% using **React Final Form** library
 - Designed data structure to organize redux store and used **React PDF** library to display data on browser in PDF
 - Constructed MS SQL database tables using **Sequelize**
 - Involved with all stages of Software Development Lifecycle using **Agile Methodology**

- Computer Science Peer Teacher** — TAMU Computer Science Department Jan 2021 - Present
- Advanced CS students' understanding of C++, **data structure & algorithms**, and discrete math
 - Enhanced **debugging** skill through reviewing over 100 students' code
 - Adopted diverse teaching methods including tablet sketching, remote computer control, and resource sharing

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 **PassportJS** 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
- Implemented REST API services using **MVC architectural pattern** from yii2 framework
 - Generated **CRUD** functionalities for user survey
 - Added Jumbotron, Navbar, Carousel **Bootstrap** features.

- Aggie Community Service Board** — A full stack web app manages volunteering events Sept 2020 - Oct 2020
- Employed the modern **responsive** website design for the front-end
 - Engineered the connection of PHP and **mySQL** database in the backend
 - Utilized PHP **Session** variables for maintaining user login status

ORGANIZATIONS

- Aggie Web Developer Club** Aug 2020 - Present
- Collaborated with club members on full-stack applications using Git and Slack

- Aggie Coding Club** Sept 2019 - Present
- Redesigned the member portal of the Aggie Coding Club's website in Front-end Language