
(Peng-Yuan) Emily Huang

Alpine, TX • (213) 300-8540 • pengyuanhuang1@gmail.com • [linkedin.com/in/py-emily-huang/](https://www.linkedin.com/in/py-emily-huang/)

Authorized to work for any US employer

Software Engineer, Intern/Co-Op

PROFILE

- Motivated full-time Computer Science Student seeking an internship/co-op to develop systems, write programs, create web applications, and build servers as part of a team to support global users.
- Demonstrated software engineering experience applied to designing and customizing website applications for digital collection displays, search capabilities, publications review, and user interface for individuals and small business.
- Collaborative and committed team member with a passion seeking opportunities to create connections through creative applications and products, software development, and growth of a global platform to bring people throughout the world together.

STRENGTHS

- | | | |
|-----------------------------|---|---------------------------------------|
| • Programming | • Web Application – Full Stack (Front-End and Back-End) | • High-Impact Contributor |
| • Problem-Solving | • Software Engineering | • Written & Verbal Communication |
| • Complexity Analysis | • Object-oriented Design | • Collaborative Team Member |
| • Complex Critical Thinking | • Creativity & Adaptiveness | • Able to Work Independently |
| • Multi-tiered Systems | | • Able to Work in High-Volume Setting |

TECHNICAL SKILLS

- | | | | | |
|--------------|-------------|----------|---------------|--|
| • Java | • C# | • PHP | • NodeJS | • Android |
| • Python | • SQL/NoSQL | • jQuery | • ExpressJS | • Git |
| • HTML/CSS | • MySQL | • JSON | • ReactJS | • C++ (Familiar) |
| • JavaScript | • MongoDB | • AJAX | • RESTful API | • GitHub Profile (click) |
-

EXPERIENCE

Digital Collections and Metadata Specialist

2018 – 2020

Sul Ross State University

Alpine, TX

- Designed and customized the University's display digital collections website, providing customer support and saving users time in research outcomes, improving knowledge sharing, and enhancing the digital experience.
- Added web services functionality (e.g. featured collections display, search box, adding a branded designed footer) to improve efficiencies and consistent effectiveness through enhanced user interfaces.
- Redesigned the format on the search page, collections pages, and the item pages to improve user-friendliness.
- Created solutions for greater collaboration and to improve flexibility for end users to meet specific needs.
- Performed on-site maintenance, systems, and architecture to ensure **100% compliance** to program specifications.
- Built and managed digital collections to increase preservation efforts of materials from Archives of the Big Bend.
- Improved and maintained the library website, resolved technical problems, assisted with large-scale coding, etc.
- Utilized HTML, CSS, JavaScript, Bootstrap, jQuery, etc. to solve problems and achieve the customers' vision.
- Enhanced link consistency and stabilization to enhance performance (<https://digitalcollections.sulross.edu/>).
- Worked individually, within teams, and with IT engineers to implement best practices, mentor the end user, increase focus of information systems, deliver customer support, identify goals, align resources, and achieve desired outcomes.

EDUCATION

Bachelor's Degree – Computer Science

Auburn University (Alabama) *Dean's List – 4.0 GPA*

2018 – Present

Relevant courses: Data Structures, Algorithms, Software Engineering

Master of Library & Information Studies

University of Wisconsin – Madison (Wisconsin)

2017

Master of Laws

University of Southern California (Los Angeles)

2014

Bachelor of Laws

Chinese Culture University (Taipei, Taiwan)

2011

FEATURED PROJECT WORK

- **Personal website:** <https://emily61268.github.io/personal-web/> (for additional information and projects)
 - Demonstrated examples of trustworthy projects related to development, programming, devops, support, etc. that have helped to influence my background and preparations.
- **Web Browser - Qroxx**
 - Developed a three-tier, graphical, event-driven desktop application using Visual Studio, C#, and SQL, building a simple web browser that included basic functionality, such as navigating to previous/next page, refreshing a page, bookmarking, etc. (see demo here: <https://www.youtube.com/watch?v=AXT7y0U3zS0>)
 - Utilized: C#, SQL, Visual Studio, Git
- **Web Application – Quotes & Efficiency** (<https://quotes-and-efficiency.herokuapp.com/>)
 - Developed a scalable network application using Node.js, Express.js, and Embedded JavaScript templating (EJS) to create dynamic To-Do-List webpages that each page is **100% customized** for different users.
 - Added a feature to display users' current local temperature and weather condition using JSON to parse data retrieved from OpenWeatherMap API and ipstack API.
 - Incorporated Mongo DB Atlas (persistent data storage) to store users' lists persistently in the online database. A user will be able to retrieve their personal to-do lists from Mongo DB for later use (add more items or delete items), which helps users achieve 100 % efficiency.
 - Generated different celebrity quotes for entertainment using AJAX to pull data from Quotes API.
 - Utilized: HTML/CSS, JavaScript, jQuery, NodeJS, ExpressJS, JSON, AJAX, Embedded JavaScript templating (EJS), NoSQL, MongoDB Atlas, Local Persistent Data, Git, OpenWeatherMap API, ipstack API, Quotes API, Mailchimp, Heroku
- **Web Application – Keeper** (<https://my-keeper-app.netlify.app/>)
 - Built a web application that functions as a bulletin board and allows users to easily post and delete notifications, sales, services, purchasing, inventory, recruiting, and other information to assist with business strategy or other uses.
 - Primarily (**about 90%**) used ReactJS to perform the frontend design.
 - Utilized: ReactJS, JavaScript, Material-UI, HTML/CSS, Git
- **Web Application – FavMusic** (<https://favmusic-now.herokuapp.com/>)
 - Designed login, registration forms, and the main music player pages including a browse page, music information (album, artist, and songs) pages, and a search page using PHP, allowing users to browse, play and search music.
 - Equipped with play, pause, next, previous, shuffle, repeat, and adjusting volume functionality using JavaScript and jQuery.
 - Incorporated persistent data storage (MySQL) to store user account information, music information (albums, artists, and songs), user-customized playlists using SQL.
 - Retrieved, updated data in the database, and performed seamless page transitions without interrupting the music playing using AJAX calls.
 - Utilized: PHP, JavaScript, jQuery, AJAX, JSON, SQL, MySQL, Local Persistent Data, Git, HTML/CSS, Clear DB, Heroku