
Peng-Yuan (Emily) Huang

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Software Engineer Co-Op/Internship

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 team member 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

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|--------------------------------|---------------------------------|---------------------------------------|
| • Programming | • Web Applications – Full Stack | • Written & Verbal Communication |
| • Problem-Solving | (Front-End and Back-End) | • Interpersonal Relations |
| • Complex Critical Thinking | • Mobile Applications | • Collaborative Team Member |
| • Software Engineering | • Creativity & Adaptiveness | • Able to Work in High-Volume Setting |
| • Web Development – Full Stack | • High-Impact Contributor | |
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TECHNICAL SKILLS

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|----------|--------------|-----------|--------------|--|
| • Java | • JavaScript | • jQuery | • Node.js | • RESTful |
| • Python | • C# | • JSON | • Express.js | • AJAX (Familiar) |
| • HTML | • SQL/NoSQL | • Android | • React.js | • PHP (Familiar) |
| • CSS | • C++ | • Git | • MongoDB | • GitHub Profile (click) |
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EXPERIENCE

Digital Collections and Metadata Specialist

2018 – 2020

Sul Ross State University

Alpine, TX

- Designed and customized the University's display digital collections website, saving users time in research outcomes.
 - Added website functionality (e.g. featured collections display, search box, adding a branded designed footer) to improve efficiencies and effectiveness through enhanced user interfaces.
 - Redesigned the format on the search page, collections pages, and the item pages to improve user-friendliness.
 - Performed on-site maintenance and systems updates 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, and jQuery to solve problems with general services.
 - Improved link consistency and stabilization to enhance performance (<https://digitalcollections.sulross.edu/>).
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EDUCATION

Bachelor's Degree – Computer Science

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

2018 – Present

Related 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)
- **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
- **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 through 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 list from Mongo DB for later use (add more items or delete an item), which helps users achieve 100 % efficiency.
 - Generated different celebrity quotes for entertainment using AJAX to retrieve data through Quotes API.
 - Utilized: HTML/CSS, JavaScript, jQuery, Node.js, Express.js, JSON, AJAX, Embedded JavaScript templating (EJS), NoSQL, MongoDB Atlas, Local Persistent Data, Git, OpenWeatherMap API, ipstack API, Quotes API, Mailchimp, Heroku