Lien Zhu

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EDUCATION

Washington University in St. Louis, McKelvey School of Engineering St. Louis, MO
Master's in Computer Science and Engineering, 4.0, BS/MS Program *January 2022 – May 2023/2024*

Washington University in St. Louis St. Louis, MO
Bachelor's of the Arts in Biology, 3.96 *Aug. 2018 – May 2022*

PROJECTS

Message in a Flask | *Python, Flask, Jinja, PostgreSQL* August 2022
- Designed and developed full-stack web app that implements message in a bottle concept
- Users can write messages and are presented with a random message from other registered users one at a time
- Users can archive messages they come across, removing the message from the pool of available messages
- Implemented with Flask using PostgreSQL following MVC architecture pattern
- Leveraged environment variables to deploy production quality app
- Visit messageinaflask.com

Calendar | *Linux, Apache, MySQL, PHP, JavaScript, AJAX* July 2022
- Designed and developed full-stack web app that allows registered users to add events, edit events, tag events under categories, share events, and share calendars with other registered users
- Full security considerations: session management, hashed passwords, CSRF tokens, etc
- Leveraged environment variables to deploy production quality app
- Check out my Calendar App

Personal Website | *HTML/CSS, JavaScript*
- See more at https://lienzhu.dev

EXPERIENCE

Teaching Assistant, CSE 247 Data Structures and Algorithms August 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering *St. Louis, MO*
- Responsible for holding office hours 3+ hours per week with 20+ students per session
- Facilitate small group weekend problem solving sessions
- Develop analogies and visual aids to make challenging concepts easier to understand

Teaching Assistant, CSE 332S Object Oriented Software Dev. Lab August 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering *St. Louis, MO*
- Oversee student learning through class time studio assistance and small group problem solving
- Assist students in learning C++ language features: memory management, environment set up, compilation, etc
- Responsible for holding office hours 6+ hours per week with 20+ students per session

TECHNICAL SKILLS

Languages: PHP, C++, C, Python, SQL, JavaScript, HTML/CSS, Java
Databases: PostgreSQL, MySQL, MariaDB, ClearDB, SQLite
Frameworks: React, Flask, Django
Developer Tools: AWS, Linux, Git, Apache, Nginx, Node.JS, Heroku, VS Code, Visual Studio
Stacks: LAMP

RESEARCH

Machine Learning, Natural Language Processing September 2022 – Present
Washington University in St. Louis, McKelvey School of Engineering *St. Louis, MO*
- Master's student research assistant
- Advised by Professor Chenguang Wang

Research Site
ReactJS
- See more of my research at https://lienlearns.tech